BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

DIVISION: BYATARAYANAPURA

SUB DIVISION: KODIGEHALLI

***Name of Work**: Estimate for Improvements Works to Burial Ground at Kodigehalli in Ward No. 08, Kodigehalli.*

Job Code: 008-18-000037

Estimated Cost: ***Rs. 5.00 Lakhs***

BRUHAT BANGALORE MAHANAGARA PALIKE
YELAHANKA ZONE

me of Work: Estimate for Improvements Works to Burial Ground at Kodigehalli in Ward No. 08, digehalli.

	008-18-000037	P-3291 14th Finance				Est Cost Rs.		500000.00	
	Description of item	**Unit**	**No**	**L**	**B**	**D**	**Qty**	**Rate**	**Amount**
	KSRB 2-1.1 : Earthwork in surface excavation in **ordinary soil** for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and neatly dressed as per specifications. specification. No. KBS 2.1(a) / 2.3.1 **Page No. 5 / Item No. 2.1 of PWD SR 2016-17**	Cum							
	For Leveling of Burial Ground		1	33.00	20.00	0.50	330.00		
	Basic Rate	189.00					**330.00**	204.12	**67360.00**
	Area Weightage @ 8%	15.12							
	Total	**204.12**							
2	KSRB 2-2.1 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, **in ordinary soil** not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(a) / 2.3.5 **Page No. 5 / Item No. 2.3 of PWD SR 2016-17**	Cum							
	For Compound Wall		2	33.00	1.00	0.90	59.40		
			2	20.00	1.00	0.90	36.00		
	Basic Rate	189.00					**95.40**	318.69	**30403.00**
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.5 / km= 38.08	38.08							
		295.08							
	Area Weightage @ 8%	23.61							
	Total	**318.69**							
3	KSRB 4-1.3 : Providing and laying in position **plain cement concrete of mix 1:4:8** with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation**, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page No.12, Item No. 4.3 of PWD SR 2016-17**	Cum							
	For Compound Wall		1	33.00	0.90	0.15	4.46		
			1	20.00	0.90	0.15	2.70		
	Basic Rate	4867.00					**7.16**	5256.36	**37609.00**
	Area Weightage @ 8%	389.36							
	Total	**5256.36**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
4	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in **foundation with cement mortar 1:6, stone** hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 **Page No. 23 / Item No. 5.6, PWD SR 2016-17**	Cum							
	For Compound Wall		1	33.00	0.60	0.45	8.91		
			1	20.00	0.60	0.45	5.40		
	Basic Rate	4187.00					**14.31**	4521.96	**64709.00**
	Area Weightage @ 8%	334.96							
	Total	**4521.96**							
5	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in **basement with cement mortar 1:6**, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 **Page No. 23 / Item No. 5.9, PWD SR 2016-17**	Cum							
	For Compound Wall		1	33.00	0.45	0.45	6.68		
			1	20.00	0.45	0.45	4.05		
	Basic Rate	5005.00					**10.73**	5405.40	**58013.00**
	Area Weightage @ 8%	400.40							
	Total	**5405.40**							
6	KSRB 4-1.6 ; Providing and laying in position **plain cement concrete of mix 1:2:4** with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation, plinth and cills**, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page No.12, Item No. 4.6 PWD SR 2016-17**	Cum							
	For Compound Wall		1	33.00	0.45	0.10	1.49		
			1	20.00	0.45	0.10	0.90		
	Basic Rate	5441.00					**2.39**	5876.28	**14015.00**
	Area Weightage @ 8%	435.28							
	Total	**5876.28**							
7	KSRB 15.1.1 Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications **Page No. 113 / Item No. 15.1, PWD SR 2016-17**	Sqm							
	For Compound Wall		2	33.00		0.45	29.70		
			2	20.00		0.45	18.00		
	Basic Rate	97.00					**47.70**	104.76	**4997.00**
	Area Weightage @ 8%	7.76							
	Total	**104.76**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
8	KSRB 5-14 : Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 **Page No. 25 / Item No. 5.26.2, PWD SR 2016-17**	Sqm							
	For Compound Wall		1	33.00		1.80	59.40		
			1	20.00		1.80	36.00		
	Basic Rate	907.00					**95.40**	979.56	**93450.00**
	Area Weightage @ 8%	72.56							
	Total	**979.56**							
9	KSRB15-3.9 :Providing 18mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. **Page No. 114 / Item No. 15.17, PWD SR 2016-17 (Outside Wall)**	Sqm							
	Compound Wall		2	33.00		1.90	125.40		
			2	20.00		1.90	76.00		
	Basic Rate	198.00					**201.40**	213.84	**43067.00**
	Area Weightage @ 8%	15.84							
	Total	**213.84**							
10	KSRB 15-16.1 : Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. - with primer. **Page No. 117 / Item No. 15.53.2, SR 2016-17**	Sqm							
	Compound Wall		2	33.00		1.90	125.40		
			2	20.00		1.90	76.00		
	Basic Rate	84.00					**201.40**	90.72	**18271.00**
	Area Weightage @ 8%	6.72							
	Total	**90.72**							
11	Providing and fixing **M.S. Gate** as per Chief Architect Drawing, using 50mm x 50mm 14 guage M.S. hollow pipe frame work bent to ornamental shape as shown in the drawing and 35mm x 6mm and 16 x 16mm Square rods for verticals alternatively spaced at 4cms c/c in two halves and 40mmx6mm M.S. flats for horizontal member and at the top cast iron spikes are provided at alternate vertical members asshown in the drawing etc., complete. All the steel surface should be thoroughly cleaned free of rust and painted with anti corrosive paint (shop paint) etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, with lead and lift, loading and unloading charges, etc., complete as per specifiocation. **Page. No. 43 / Item. No. 7.37 PWD SR 2016-17**	Sqm							
	Gate		1	3.00		1.90	5.70		

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Basic Rate	2934.00					**5.70**	3168.72	**18062.00**
	Area Weightage @ 8%	234.72							
	Total	**3168.72**							
	Sub Total								**449956.00**
	Tender Premium @ 10%								**44996.00**
	Third Party Inspection Charges @ 1%								**4500.00**
	Miscellaneous and Unforeseen Charges	L/S							**548.00**
								Total	**500000.00**
Rupees Five Lakh(s) Only									

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per C.S.R. of PWD 2016-17.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 08

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Kodigehalli Sub Division

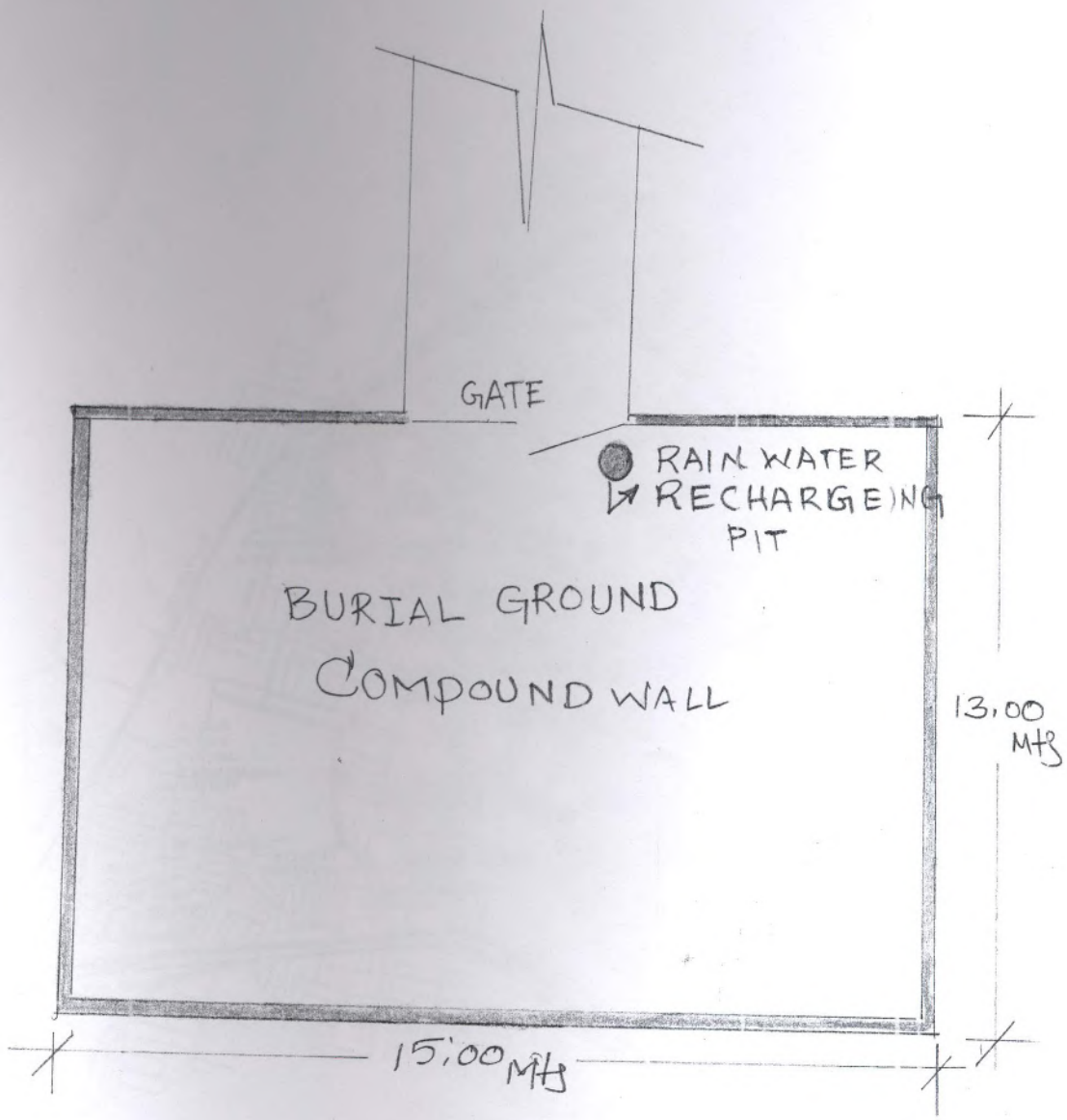
Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Sub Division

ADMINISTRATIVE APPROVAL
Accorded For Rs. Five lakhs only
Head of A/c. P-3291
Div. Ref. No. 154/17-18 Date. 06/01/18.
AE 6/01
EE(BTP) 6/01

TECHNICAL SANCTION
Accorded For Rs. Five lakhs only
Head of A/c. P-3291
Div. Ref. No. 47/17-18 Date. 06/01/18
AE 6/01
EE(BTP) 6/01

Name of Work: Improvements Works at Burial Ground at Kodigehali in Ward No. 08.



BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

DIVISION: BYATARAYANAPURA

SUB DIVISION: KODIGEHALLI

Name of Work: Estimate for Improvements of Park in Ward No. 8 Kodigehalli.

Job Code: 008-18-000038

Estimated Cost: **Rs. 5.00 Lakhs**

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of work: Estimate for Improvements of Park in Ward No. 8 Kodigehalli.

	008-18-000038	P-3292 14th Finance			Est Cost Rs:			500000.00	
Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork **excavation by manual means in ordinary** soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 **Page No. 142 / Item No. 19.1, PWD SR 2016-17**	Cum							
	Park Area		1	14.25	10.00	0.20	28.50		
	Desilting of Drain		2	15.00	0.45	0.45	6.08		
			2	10.00	0.45	0.45	4.05		
	Basic Rate	82.00					**38.63**	199.36	**7700.00**
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.5 / km= 38.08	38.08							
		188.08							
	Area Weightage @6%	11.28							
	Total	**199.36**							
2	KSRRB M2100-9. Sand Filling in Foundation Trenches as per Drawing & Technical SpecificationMORTH Specification No. 304 **Item No. 27.17 Page No. 217, PWD SR 2016-17**	Cum							
			1	14.25	10.00	0.30	42.75		
	Basic Rate	2757.00					**42.75**	2922.42	**124933.00**
	Area Weightage @ 6%	165.42							
	Total	**2922.42**							
3	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete **Page No. 25 / Item No. 5.30 PWD SR 2016-17**	No							
			8	5.00			89		
				0.45					
	Basic Rate	313.00					**89**	331.78	**29492.00**
	Area Weightage @ 6%	18.78							
	Total	**331.78**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
4	KSRB 15-19.1 : Providing and applying ready mix priming coat over concrete / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after thoroughly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications. **Page No. 122 / Item No. Item No. 15.80, PWD SR 2016-17**	Sqm							
	Kerb Stone Painting		8	5.00		0.45	18.00		
	Basic Rate	26.00					**18.00**	27.56	**496.00**
	Area Weightage @ 6%	1.56							
	Total	**27.56**							
5	KSRB 15-19.2 : Providing and applying spray painting in two coats (excluding priming coat) over concrete / masonry / asbestos cement sheet / plastered surfaces with flat wall paint of approved brand to give even shade after cleaning the surface of all dirt, dust and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications.**Page No. 122 / Item No. Item No. 15.81, PWD SR 2016-17**	Sqm							
			Qty Vide Item No. 4				18.00		
	Basic Rate	66.00					**18.00**	69.96	**1259.00**
	Area Weightage @ 6%	3.96							
	Total	**69.96**							
6	KSRB 15-18.2 : Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications. (**Page No. 120 Item No. 15.74 of SR 2016-17**).	Sqm							
	Painting Chain Link Fencing		2	15.00		1.80	54.00		
			2	10.00		1.80	36.00		
	Basic Rate	26.00					**90.00**	27.56	**2480.00**
	Area Weightage @ 6%	1.56							
	Total	**27.56**							
	Children Play Equipments								
7	**Providing Children play Merry-go-Round equipment** : Made of MS 'A' Class pipes. Main pillars in 100 mm dia fitted with shaft and two bearing the other cross members are in 25 & 20 mm MS A Class pipe the bottom ring is made out of 25mm of ring size is 1.20 mts dia fitted with four seats are in mental sats if 250 x 200 x 18 SWG handles are made out of 20mm NB pipes and othe supports are in 25mm MS 'A' Class pipes. All the pipes are painted with two coats of super set paint over a coat of protective Zinc chromate yellow oxide including fixing the play equipments in CC 1:2:4, curing etc., complete with all lead, lift, loading, unloading and any other incidental charges and as perthe draing and specification and direction of the engineer in charge of the work.	Each							
			1				1		
							1	28000.00	**28000.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
8	**Providing Children Play Standard Swing : This Swing consosts of 2 Nos**, seat of solid bbed FP of size 480 mm x 180 mm x 3.5 mm supported by MS chains. The chains are supported by circular housing with bearing from which the chain in suspended. The main beam is of 50 mm MS 'A' class pipe Size of MS chain 30 mm x 20 mm x 5mm thick The 2 Nos inverted 'V' beams are of 50 mm 'A' class pipes secured at the top the main beam by means of CI castings (Heavy duty for elders) All pipes are of ISI grade all the pipes are painted with two coats of super set paitng over a coat of protective Zinc chromate yellow oxide including fixing the play equipments in CC 1:2:4, curing etc., complete with all lead, lift, loading, unloading and any other incidental charges and as perthe draing and specification and direction of the engineer in charge of the work.	Each	1				1	56000.00	**56000.00**
9	Duck wheel	Each	1				1	68000.00	**68000.00**
10	Duck Swing (2 seater)	Each	1				1	56000.00	**56000.00**
11	Mini Slide	Each	1				1	16000.00	**16000.00**
12	Providing Granite Benches	Nos	6				6	10000.00	**60000.00**
	Sub Total								**450360.00**
	Tender Premium @ 10%								**45036.00**
	Third Party Inspection Charges @ 1%								**4504.00**
	Add for unforseen and rounding off	L/S							**100.00**
								Total	**500000.00**

Rupees Five Lakh(s) Only

ADMINISTRATIVE APPROVAL
Accorded For Rs. Five lakhs only
Head of A/c. P-3292
Div. Ref. No. 157/17-18 Date. 6/01/17
AE 6/01

TECHNICAL SANCTION
Accorded For Rs. Five lakhs only
Head of A/c. P-3292
Div. Ref. No. SR/17-18 Date. 6/01/17
AE 6/01
EE(BTP) 6/01

Certificate:

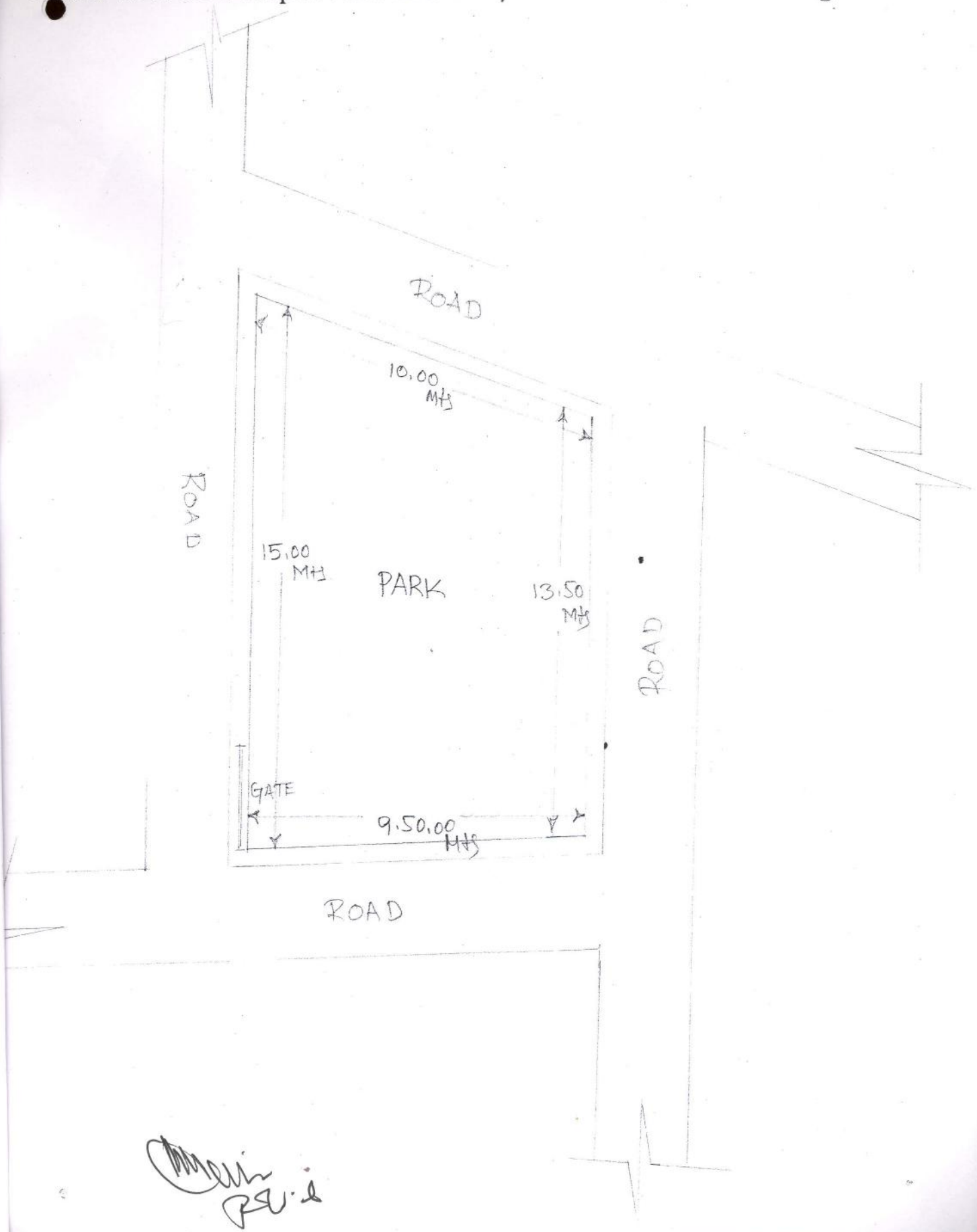
1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR 2016-17 and Approved Rates.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 08

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Kodigehalli Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division
6/01

Name of Work: Improvements of Park in Ward No. 8 Kodigehalli.



BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

DIVISION: BYATARAYANAPURA

SUB DIVISION: KODIGEHALLI

Name of Work: *Estimate for Providing Drinking Water Facility in Ward No. 08, Kodigehalli.*

Job Code: 008-18-000039

Estimated Cost:	*Rs. 20.00 Lakhs*

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of Work: Estimate for Providing Drinking Water Facility in Ward No. 08, Kodigehalli.

008-18-000039		P-3293 14th Finance					Est Cost Rs.	2000000.00
Sl No	**Description of item**	**Unit**	**No**	**L**	**B**	**D**	**Qty**	**Rate**	**Amount**
1	Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P.W.S.S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation, Gerophysical investigation of existing Ground Wate in the vicinity, its qualityf 1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site., engaging techinical personal and labour required etc., as per Specification and direction **(P.48, I. 9.4) PRED.SR 2012-13**	Each BW	2				**2**	1938.46	**3877.00**
2	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars, cap etc.,) **P. 46 / I. 9.1 PRED SR 2012-13**	Rmtr							
	0 to 50 m		2	50.00			**100.00**	315.18	**31518.00**
	50 to 100 m		2	50.00			**100.00**	412.00	**41200.00**
	100 to 150 m		2	50.00			**100.00**	458.35	**45835.00**
	150 to 200 m		2	50.00			**100.00**	484.10	**48410.00**
	200 to 250 m		2	50.00			**100.00**	560.32	**56032.00**
	250 to 300 m		2	50.00			**100.00**	600.49	**60049.00**
3	Supply of ISI mark 175 mm nominal bore, Plain end steel casing pipe - grade of Steel Fee 410 of wall thickness 5.4mm thick confirming to IS 4270:2001 and latest amendments, electric resistance welded steel tube material and confirming to IS 1387/1993 and manufactured by baseic open hearth electric or basic oxygen process in random length of 5 to 7 mts both ends threaded confirming tio IS 554/1985, one end fixied with socket confirming to IS 4270:2001 and the other end with screwed pipes ISI Marking weighing 25.10Kg/mtr (Inclusive of all taxes and durties) Prices include Collar-medium duty **P. iii, I No. 84 PRED SR 2012-13**	Rmtr	2	70.00			**140.00**	1325.00	**185500.00**
4	Providing 250mm dia PVC Pipe 6kg/cm **BWSSB SR 2014-15 Page No. 53, Item No. 1(ii)**	Rmtr	2	18.00			**36.00**	1100.00	**39600.00**
5	Providing and fixing 160mm Borewell Cap **P. iii, I No. 85 PRED SR 2012-13**	Each	2				**2**	100.00	**200.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
6	Supply and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / Atalanta/ Calamal/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by measns of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for opertation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required aqccessories such as suction, casing suction strainers sand guard Non return value etc. complete . The pump and motor shall form an integral unit with all the required fittings 12.50 HP 25 stage. ATALANTA< SUGNA< CRI, KIRLOSKAR and other Equivalent Pumps **PWD SR 2015-16 P. XXXX Item No. 24 including of all taxes**	No							
	12.5 HP 25 Stage		2				**2**	60400.00	**120800.00**
7	KSRB13-3.6 : Providing and fixing in trenches galvanised / mild steel tubes (medium grade) 50mm dia nominal bore with all fittings (earth work in trenches to be measured and paid for separately) including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Specification No.KBS 13.2.14 / 13.6 **Page No. 89, Item No. 13.15 PWD SR 2016-17**	m							
			2	260.00			**520.00**	457.92	**238118.00**
	Basic Rate	432.00							
	Area Weightage @ 6%	25.92							
	Total	**457.92**							
8	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage upto 1100Volts as per IS-694:1990 & confirming to GTP of **GROUP-A. P. No. 12 / I No. 2.10.4(1) 3C x 4 Sqm mm KPWD Electrical SR 2014-15**	Mtr							
			2x2	270.00			**1080.00**	126.70	**136836.00**
9	Labour charges for erection as new /repaired submercible pumpset allong with GI pipe (32/50mm) cable (new submercible pumpset if required will be supplied by the department free of cost and released pumpset shoud be handed over to department including transportation (Each lenth =6.00) **Page No. 558, Items No-3 BWSSB SR for 2014-15)**	Per Length							
			2	44.00			**88**	88.00	**7744.00**
10	Supplying and fixing 20"x20"x2.5" polished wood board made of not less than 15mm thick plank on both sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc., **P No. 44 / I No. 6.6.6 KPWD Electrical SR 2014-15**	Each							
			2				**2**	302.00	**604.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
11	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A **P No. 55/ I No. 7.4.4 4 core 16 Sqmm KPWD Electrical SR 2014-15**	Mtr							
			2	30.00			**60.00**	140.40	**8424.00**
12	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.In existing trench/duct. **P No. 61 / I No. 7.8.1 6Sqmm to 16 Sqmm) KPWD Electrical SR 2014-15**	Mtr							
			2	30.00			**60.00**	10.80	**648.00**
13	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7) **P No. 61 / I. No. 7.9.3 KPWD Electrical SR 2014-15**	Mtr							
	For Cutting Road Surface		2	25.00			**50.00**	85.00	**4250.00**
14	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV **P. No. 62 / I No. 7.12.1 KPWD Electrical SR 2014-15**	Mtr							
	40mm dia GI pipe		2	4.00			**8.00**	345.00	**2760.00**
15	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc., **P. No. 62 / I.No. 7.13.2 KPWD Electrical SR 2014-15**	No.							
	16Sqmm		2				**2.00**	280.00	**560.00**
16	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia, **(P No. 55, I No. 7.1) KPWD Electrical SR 2014-15**	No							
			2				**2**	2727.00	**5454.00**
17	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers.**P No. 44 / I No. 6.7.2 KPWD Electrical SR 2014-15**	No.							
	32 Amps		2x6				**12**	180.00	**2160.00**
18	KSRB13-7.1-4 : Providing and fixing in position 50mm nominal bore gun metal non-return valve horizontal type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.10 / 13.13 **Page No. 93, Item No. 13.55, PWD SR 2016-17**	Nos							
			2				**2**	1585.76	**3172.00**
	Basic Rate	1496.00							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Area Weightage @ 6%	89.76							
	Total	**1585.76**							
19	Providing NP/CP waste unions conforming to ISI specifications and fixing them in position as per directions including cost of materials, fixtures and conveyance to work spot etc., complete.- **for 50mm dia: Page No. 95 , Item No. 13.81.3 PWD SR 2016-17**	Each							
	50mm dia		2				**2**	227.90	**456.00**
	Basic Rate	215.00							
	Area Weightage @ 6%	12.90							
	Total	**227.90**							
20	Supplying and fixing 50mm dia GI X nipple with ISI mark with all lead and lift loading unloading and labour charges etc complete **P. XXXVII PWD SR 2016-17**	No							
			2	4.00			**8**	104.30	**834.00**
21	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. **5-32Amps Group A TPN P No. 47 / I No.6.16.5 KPWD SR 2014-15**	No							
			2				**2**	1547.00	**3094.00**
22	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete **P.No. 57, I. No. 6.41.2 KPWD Electrical SR 2014-15**	Sq.Cm							
	16SWG		2x2	120.00	60.00		28800.00		
			2	360.00	25.00		18000.00		
							46800.00	0.33	**15444.00**
23	Supplying fully automatic store detta starter unit push button type with suitable wires three contractors one adjustable termal timer mounted on a common base plate held in steel enclosure for use on 400/440 volts 3pase and wired offter fixing to the wooden board for motor upto **12.50 HP (KPWD electrical SR for 2014-15 Page No. 44 Item No. 6.2.1)**	No.							
			2				**2**	6583.00	**13166.00**
24	Earthwork excavation for pipeline trenches including deporiting or bank up to a lead of 50 mtrs including sharing and strutting danger lighting and using site rails and boming poles at every 100 mtrs wherever necessary as directed in th following strructure manhole. **Page No. 01/ Item No.1.2.2 / PRED SR 2012-13 Hard Soil**	Cum							
			2	435.00	0.60	0.75	391.50		
							391.50	188.00	**73602.00**
	Basic Rate	188.00							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
25	Providing and instalation at site of works P.V.C.Pipes including cost of pipes and specials and incluidng lowring into trenches, laying true to line, level and perfect linking at joints, leak proof including jointing encasing the pipe alround to a depth Not less than 15cm with grave or selected earth avalabile from the execavation Etc., **Page No.15 item No.3.4.2 b PRED SR 2012-13.**	Rmtr							
	75 mm dia 6 KSC PVC pipe		2	435.00			870.00		
							870.00	157.00	**136590.00**
	Basic Rate	157.00							
26	KSRRB M1200-46. Sand filling in wells complete as per drawing and technical specifications MORTH Specification No.1207 Page No. 213, **Page No. 26.124, PWD SR 2016-**	Cum							
			2	435.00	0.60	0.30	156.60		
							156.60	2922.42	**457651.00**
	Basic Rate	2757.00							
	Area Weightage @ 6%	165.42							
	Total	**2922.42**							
27	Refilling the basement and pipeline treanches with secleted available earthe for trench excavation including authority condition in layers from thedi including disponsary of the sunplus earth with a heavy 200 mtrs **Page No. 3 / Item No. 1.6 / PRED SR 2012-13**	Cum							
			Qty. Vide Item No. 25-27				**234.90**	61.00	**14329.00**
	Basic Rate	61.00							
28	KSRB13-6.3-7 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) **65mm nominal bore** including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.6 / 13.3. **P. No.92 / I. No. 13.38 PWD SR 2016-17**	Each							
			7					2729.50	**19107.00**
	Basic Rate	2575.00							
	Area Weightage @ 6%	154.50							
	Total	**2729.50**							
	Sub Total								**1778024.00**
	Tender Premium @ 10%								**177802.00**
	Third Party Charges @ 1%								**17780.00**
	Borewell BESCOM Deposit		2	12500.00					**25000.00**
	Miscellaneous and Unforeseen Charges	L/S							**1394.00**
								Total	**2000000.00**

Rupees Twenty Lakh(s) Only

TECHNICAL SANCTION
Accorded For Rs. Twenty lakhs only
Head of A/c. P-3293
Div. Ref. No. 55/17-18 Dt. 05/02/18
AE DS/02
EE(BTP) 5/02

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per C.S.R. of PWD 2016-17, PWD Elecrical 2014-15, PRED 2012-13 & approved Rate.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 08

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Kodigehalli Sub Division

Assistant Executive Engineer,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Administrative Approval
Accorded For 20.00 lakh Rs.
Head of A/C..... P3293
CER NO :.....188..... Dt: 10/01/18

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Sub Division

TA CE (YNK)

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

DIVISION: BYATARAYANAPURA

SUB DIVISION: KODIGEHALLI

***Name of Work**: Estimate for Providing Drinking Water Facility in Maruthinagara and Devinagara in Ward No. 08, Kodigehalli.*

Job Code: 008-18-000040

Estimated Cost: ***Rs. 20.00 Lakhs***

BRUHAT BANGALORE MAHANAGARA PALIKE
YELAHANKA ZONE

Name of Work: Estimate for Providing Drinking Water Facility in Maruthinagara and Devinagara in Ward No. 08, Kodigehalli.

008-18-000040		P-3293 14th Finance					Est Cost Rs.	2000000.00
Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P.W.S.S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation, Gerophysical investigation of existing Ground Wate in the vicinity, its qualityf 1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site., engaging techinical personal and labour required etc., as per Specification and direction **(P.48, I. 9.4) PRED.SR 2012-13**	Each BW	2				2	1938.46	**3877.00**
2	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars, cap etc.,) **P. 46 / I. 9.1 PRED SR 2012-13**	Rmtr							
	0 to 50 m		2	50.00			**100.00**	315.18	**31518.00**
	50 to 100 m		2	50.00			**100.00**	412.00	**41200.00**
	100 to 150 m		2	50.00			**100.00**	458.35	**45835.00**
	150 to 200 m		2	50.00			**100.00**	484.10	**48410.00**
	200 to 250 m		2	50.00			**100.00**	560.32	**56032.00**
	250 to 300 m		2	50.00			**100.00**	600.49	**60049.00**
3	Supply of ISI mark 175 mm nominal bore, Plain end steel casing pipe - grade of Steel Fee 410 of wall thickness 5.4mm thick confirming to IS 4270:2001 and latest amendments, electric resistance welded steel tube material and confirming to IS 1387/1993 and manufactured by baseic open hearth electric or basic oxygen process in random length of 5 to 7 mts both ends threaded confirming tio IS 554/1985, one end fixied with socket confirming to IS 4270:2001 and the other end with screwed pipes ISI Marking weighing 25.10Kg/mtr (Inclusive of all taxes and durties) Prices include Collar-medium duty **P. iii, I No. 84 PRED SR 2012-13**	Rmtr	2	70.00			**140.00**	1325.00	**185500.00**
4	Providing 250mm dia PVC Pipe 6kg/cm **BWSSB SR 2014-15 Page No. 53, Item No. 1(ii)**	Rmtr	2	18.00			**36.00**	1100.00	**39600.00**
5	Providing and fixing 160mm Borewell Cap **P. iii, I No. 85 PRED SR 2012-13**	Each	2				**2**	100.00	**200.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
6	Supply and delivery at site brand New texmo/ Innoval/ Lubi/ Sabar / Atalanta/ Calamal/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by measns of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for opertation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required aqccessories such as suction, casing suction strainers sand guard Non return value etc. complete . The pump and motor shall form an integral unit with all the required fittings 12.50 HP 25 stage. ATALANTA< SUGNA< CRI, KIRLOSKAR and other Equivalent Pumps **PWD SR 2015-16 P. XXXX Item No. 24 including of all taxes**	No							
	12.5 HP 25 Stage		2				**2**	60400.00	**120800.00**
7	KSRB13-3.6 : Providing and fixing in trenches galvanised / mild steel tubes (medium grade) 50mm dia nominal bore with all fittings (earth work in trenches to be measured and paid for separately) including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Specification No.KBS 13.2.14 / 13.6 **Page No. 89, Item No. 13.15 PWD SR 2016-17**	m							
			2	260.00			**520.00**	457.92	**238118.00**
	Basic Rate	432.00							
	Area Weightage @ 6%	25.92							
	Total	**457.92**							
8	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage upto 1100Volts as per IS-694:1990 & confirming to GTP of **GROUP-A. P. No. 12 / I No. 2.10.4(1) 3C x 4 Sqm mm KPWD Electrical SR 2014-15**	Mtr							
			2x2	270.00			**1080.00**	126.70	**136836.00**
9	Labour charges for erection as new /repaired submercible pumpset allong with GI pipe (32/50mm) cable (new submercible pumpset if required will be supplied by the department free of cost and released pumpset shoud be handed over to department including transportation (Each lenth =6.00) **Page No. 558, Items No-3 BWSSB SR for 2014-15)**	Per Length							
			2	44.00			**88**	88.00	**7744.00**
10	Supplying and fixing 20"x20"x2.5" polished wood board made of not less than 15mm thick plank on both sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc., **P No. 44 / I No. 6.6.6 KPWD Electrical SR 2014-15**	Each							
			2				**2**	302.00	**604.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
11	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A **P No. 55/ I No. 7.4.4 4 core 16 Sqmm KPWD Electrical SR 2014-15**	Mtr							
			2	30.00			**60.00**	140.40	**8424.00**
12	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.In existing trench/duct. **P No. 61 / I No. 7.8.1 6Sqmm to 16 Sqmm) KPWD Electrical SR 2014-15**	Mtr							
			2	30.00			**60.00**	10.80	**648.00**
13	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7) **P No. 61 / I. No. 7.9.3 KPWD Electrical SR 2014-15**	Mtr							
	For Cutting Road Surface		2	25.00			**50.00**	85.00	**4250.00**
14	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV **P. No. 62 / I No. 7.12.1 KPWD Electrical SR 2014-15**	Mtr							
	40mm dia GI pipe		2	4.00			**8.00**	345.00	**2760.00**
15	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc., **P. No. 62 / I.No. 7.13.2 KPWD Electrical SR 2014-15**	No.							
	16Sqmm		2				**2.00**	280.00	**560.00**
16	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia, **(P No. 55, I No. 7.1) KPWD Electrical SR 2014-15**	No							
			2				**2**	2727.00	**5454.00**
17	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers.**P No. 44 / I No. 6.7.2 KPWD Electrical SR 2014-15**	No.							
	32 Amps		2x6				**12**	180.00	**2160.00**
18	KSRB13-7.1-4 : Providing and fixing in position 50mm nominal bore gun metal non-return valve horizontal type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.10 / 13.13 **Page No. 93, Item No. 13.55, PWD SR 2016-17**	Nos							
			2				**2**	1585.76	**3172.00**
	Basic Rate	1496.00							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Area Weightage @ 6%	89.76							
	Total	**1585.76**							
19	Providing NP/CP waste unions conforming to ISI specifications and fixing them in position as per directions including cost of materials, fixtures and conveyance to work spot etc., complete.- **for 50mm dia: Page No. 95 , Item No. 13.81.3 PWD SR 2016-17**	Each							
	50mm dia		2				**2**	227.90	**456.00**
	Basic Rate	215.00							
	Area Weightage @ 6%	12.90							
	Total	**227.90**							
20	Supplying and fixing 50mm dia GI X nipple with ISI mark with all lead and lift loading unloading and labour charges etc complete **P. XXXVII PWD SR 2016-17**	No							
			2	4.00			**8**	104.30	**834.00**
21	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. **5-32Amps Group A TPN P No. 47 / I No.6.16.5 KPWD SR 2014-15**	No							
			2				**2**	1547.00	**3094.00**
22	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete **P.No. 57, I. No. 6.41.2 KPWD Electrical SR 2014-15**	Sq.Cm							
	16SWG		2x2	120.00	60.00		28800.00		
			2	360.00	25.00		18000.00		
							46800.00	0.33	**15444.00**
23	Supplying fully automatic store detta starter unit push button type with suitable wires three contractors one adjustable termal timer mounted on a common base plate held in steel enclosure for use on 400/440 volts 3pase and wired offter fixing to the wooden board for motor upto **12.50 HP (KPWD electrical SR for 2014-15 Page No. 44 Item No. 6.2.1)**	No.							
			2				**2**	6583.00	**13166.00**
24	Earthwork excavation for pipeline trenches including deporiting or bank up to a lead of 50 mtrs including sharing and strutting danger lighting and using site rails and boming poles at every 100 mtrs wherever necessary as directed in th following strructure manhole. **Page No. 01/ Item No.1.2.2 / PRED SR 2012-13 Hard Soil**	Cum							
			2	435.00	0.60	0.75	391.50		
							391.50	188.00	**73602.00**
	Basic Rate	188.00							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
25	Providing and instalation at site of works P.V.C.Pipes including cost of pipes and specials and incluidng lowring into trenches, laying true to line, level and perfect linking at joints, leak proof including jointing encasing the pipe alround to a depth Not less than 15cm with grave or selected earth avalabile from the execavation Etc., **Page No.15 item No.3.4.2 b PRED SR 2012-13.**	Rmtr							
	75 mm dia 6 KSC PVC pipe		2	435.00			870.00		
							870.00	157.00	**136590.00**
	Basic Rate	157.00							
26	KSRRB M1200-46. Sand filling in wells complete as per drawing and technical specifications MORTH Specification No.1207 Page No. 213, **Page No. 26.124, PWD SR 2016-**	Cum							
			2	435.00	0.60	0.30	156.60		
							156.60	2922.42	**457651.00**
	Basic Rate	2757.00							
	Area Weightage @ 6%	165.42							
	Total	**2922.42**							
27	Refilling the basement and pipeline treanches with secleted available earthe for trench excavation including authority condition in layers from thedi including disponsary of the sunplus earth with a heavy 200 mtrs **Page No. 3 / Item No. 1.6 / PRED SR 2012-13**	Cum							
			Qty. Vide Item No. 25-27				**234.90**	61.00	**14329.00**
	Basic Rate	61.00							
28	KSRB13-6.3-7 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) **65mm nominal bore** including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.6 / 13.3. **P. No.92 / I. No. 13.38 PWD SR 2016-17**	Each							
			7				**7**	2729.50	**19107.00**
	Basic Rate	2575.00							
	Area Weightage @ 6%	154.50							
	Total	**2729.50**							
	Sub Total								**1778024.00**
	Tender Premium @ 10%								**177802.00**
	Third Party Charges @ 1%								**17780.00**
	Borewell BESCOM Deposit		2	12500.00					**25000.00**
	Miscellaneous and Unforeseen Charges	L/S							**1394.00**
								Total	**2000000.00**
Rupees Twenty Lakh(s) Only									

TECHNICAL SANCTION
Accorded For Rs. Twenty lakhs only
Head of A/c. P-3293
Div. Ref. No. 56/12-18 Date 05/02/18
AE 05/02 EE(BTP) 5/02

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per C.S.R. of PWD 2016-17, PWD Elecrical 2014-15, PRED 2012-13 & approved Rate.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 08

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Kodigehalli Sub Division
Yelahanka Zone, B.B.M.P.,
Bangalore.

Administrative Approval
Accorded For 20.00 lakhs.
Head of A/C. P3293
CER NO : 189 Dt: 10/01/18

Executive Engineer 10/01
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Sub Division

TA CE (YNK) 10/01

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

DIVISION: BYATARAYANAPURA

SUB DIVISION: KODIGEHALLI

Name of Work: *Estimate for Repairs and Maintenance of Public Toilet in Ward No. 08, Kodigehalli.*

Job Code: 008-18-000041

Estimated Cost: ***Rs. 5.00 Lakhs***

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of Work: Estimate for Repairs and Maintenance of Public Toilet in Ward No. 08, Kodigehalli.

	008-18-000041	P-3294 14th Finance					Est Cost Rs.		500000.00
Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRB 2-2.1 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, **in ordinary soil** not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(a) / 2.3.5 **Page No. 5 / Item No. 2.3 of PWD SR 2016-17**	Cum							
	For Compound Wall		2	9.65	1.00	1.00	19.30		
			2	4.75	1.00	1.00	9.50		
	Basic Rate	189.00					**28.80**	204.12	**5879.00**
	Area Weightage @ 8%	15.12							
	Total	**204.12**							
2	KSRB 4-1.3 : Providing and laying in position **plain cement concrete of mix 1:4:8** with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation**, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page No.12, Item No. 4.3 of PWD SR 2016-17**	Cum							
	For Compound Wall		2	9.65	0.75	0.15	2.17		
			2	4.75	0.75	0.15	1.07		
	Front Flooring		2	9.25	1.20	0.15	3.33		
			2	4.35	1.50	0.15	1.96		
	Basic Rate	4867.00					**8.53**	5256.36	**44824.00**
	Area Weightage @ 8%	389.36							
	Total	**5256.36**							
3	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in **foundation with cement mortar 1:6, stone** hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 **Page No. 23 / Item No. 5.6, PWD SR 2016-17**	Cum							
	For Compound Wall		2	9.65	0.60	0.45	5.21		
			2	4.75	0.60	0.45	2.57		
	Basic Rate	4187.00					**7.78**	4521.96	**35163.00**
	Area Weightage @ 8%	334.96							
	Total	**4521.96**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
4	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in **basement with cement mortar 1:6**, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 **Page No. 23 / Item No. 5.9, PWD SR 2016-17**	Cum							
	For Compound Wall		2	9.65	0.45	0.45	3.91		
			2	4.75	0.45	0.45	1.92		
	Basic Rate	5005.00					**5.83**	5405.40	**31524.00**
	Area Weightage @ 8%	400.40							
	Total	**5405.40**							
5	KSRB 4-1.6 ; Providing and laying in position **plain cement concrete of mix 1:2:4** with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation, plinth and cills**, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page No.12, Item No. 4.6 PWD SR 2016-17**	Cum							
	For Compound Wall		2	9.65	0.45	0.10	0.87		
			2	4.75	0.45	0.10	0.43		
	Front Flooring		2	9.25	1.20	0.10	2.22		
			2	4.35	1.50	0.10	1.31		
	Basic Rate	5441.00					**4.82**	5876.28	**28330.00**
	Area Weightage @ 8%	435.28							
	Total	**5876.28**							
6	KSRB 15.1.1 Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications **Page No. 113 / Item No. 15.1, PWD SR 2016-17**	Sqm							
	For Compound Wall		4	9.65		0.45	17.37		
			4	4.75		0.45	8.55		
	Basic Rate	97.00					**25.92**	104.76	**2715.00**
	Area Weightage @ 8%	7.76							
	Total	**104.76**							
7	KSRB 5-14 : Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 **Page No. 25 / Item No. 5.26.2, PWD SR 2016-17**	Sqm							
	For Compound Wall		2	9.65		1.80	34.74		
			2	4.75		1.80	17.10		
	Basic Rate	907.00					**51.84**	979.56	**50780.00**
	Area Weightage @ 8%	72.56							
	Total	**979.56**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
8	KSRB15-3-13 : Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to **ceiling** including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. **Page No. 114, Item No. 15.21 of PWD SR 2016-17**	Sqm							
	Ceiling Damage Portion		1	1.50	1.30		1.95		
			1	1.20	1.35		1.62		
			1	1.00	0.95		0.95		
	Basic Rate	193.00					**4.52**	208.44	**942.00**
	Area Weightage @ 8%	15.44							
	Total	**208.44**							
9	KSRB15-3.12 :Providing 20mm thick cement plaster in single coat with cement mortar 1:6, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. **Page No. 114, Item No. 15.21 of PWD SR 2016-17 (Inside Plastering)**	Sqm							
	Inside wall		1	1.80		1.20	2.16		
			1	1.65		1.00	1.65		
	Basic Rate	208.00					**3.81**	224.64	**856.00**
	Area Weightage @ 8%	16.64							
	Total	**224.64**							
10	KSRB15-7 : Providing lime rendering for plastering to wall and ceiling, including cost of materials, labour, curing complete as per specifications. **Page No. 115, Item No. 15.33, PWD SR 2016-17**	Sqm							
			Qty Vide Item No. 8+9				**8.33**	27.00	**225.00**
	Basic Rate	25.00							
	Area Weightage @ 8%	2.00							
	Total	**27.00**							
11	KSRB15-3.9 :Providing 18mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. **Page No. 114 / Item No. 15.17, PWD SR 2016-17 (Outside**	Sqm							
	Out Side Damage Portion		1	1.30		1.65	2.15		
			1	1.10		1.00	1.10		
	Compound Wall		1	1.35		1.00	1.35		
			1	1.00		1.25	1.25		
	Basic Rate	198.00					**5.85**	213.84	**1250.00**
	Area Weightage @ 8%	15.84							
	Total	**213.84**							
12	KSRB 15-14.1 : Providing and **applying two coats with oil bound washable distemper** of approved brand and shade on wall surface including priming coat with distemper primer after throughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. **Page No. 117 / Item No. 15.49.1, PWD SR 2016-17**	Sqm							
	Ceiling Portion		8	1.20	1.20		11.52		
			2	2.70	1.50		8.10		

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Inside wall		2	4.17		3.00	25.02		
			2	2.65		3.00	15.90		
							60.54		
	Deductions - For door Doors		0.5x2	1.50		2.10	3.15		
	Door 1		0.5x8	0.75		2.10	6.30		
	Ventilator		0.5x8	0.60		0.45	1.08		
							-10.53		
	Basic Rate	71.00					**50.01**	76.68	**3835.00**
	Area Weightage @ 8%	5.68							
	Total	**76.68**							
13	KSRB 15-16.1 : Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. - with primer. **Page No. 117 / Item No. 15.53.2, SR 2016-17**	Sqm							
	Out Side		2	5.75		3.75	43.13		
			2	4.50		3.75	33.75		
	Compound Wall		4	6.60		1.90	50.16		
			4	7.85		1.90	59.66		
							186.70		
	Deductions - For door Doors		0.5x2	1.50		2.10	3.15		
	Door 1		0.5x8	0.75		2.10	6.30		
	Ventilator		0.5x8	0.60		0.45	1.08		
							-10.53		
	Basic Rate	84.00					**176.17**	90.72	**15982.00**
	Area Weightage @ 8%	6.72							
	Total	**90.72**							
14	KSRB 14.14-5: Providing Ceramic tiles of approved make,shade and size for **flooring**, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment , including cost of materials, labour, curing, complete as per specifications. - for Ceramic Tiles of size 30x30cms 6mm thick. **Page No.106, Item No. 14.36.2, PWD SR**	Sqm							
	for flooring		2	0.90	1.20		2.16		
			2	1.20	1.00		2.40		
	Basic Rate	1176.00					**4.56**	1270.08	**5792.00**
	Area Weightage @ 8%	94.08							
	Total	**1270.08**							
15	KSRB 7.1 : Providing and fixing in position **collapsible steel shutters** with single or double leaf with vertical channel 20mmx10mmx2mm braced with flat iron diagonals 20mmx5mm size, with top and bottom rails of T iron sections of 40x40x6 mm with 38mm dia steel pulleys complete with bolt and nuts, locking arrangements, stoppers, handles on both sides with 7.5cms openings at 10 cms. c to c applying a priming coat of red lead paint. cost of materials, labour, HOM of machinery complete as per specifications. **size of gate 2.4mx1.4m**. Specification No. KBS 7.7 / 7.12 **Page No. 30, Item No. 7.1, PWD SR 2016-17**	Sqm							
	Gate		1	2.40		2.00	4.80		
	Basic Rate	4033.00					**4.80**	4355.64	**20907.00**
	Area Weightage @ 8%	322.64							
	Total	**4355.64**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
16	KSRB 14-17.2 : Providing skirting, dado, rises of steps with colour glazed tiles on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications. Specification No.KBS 14.16, 14.17 - Colour glazed tiles 15x15 cms 6mm thick **Page No.106, Item No. 14.41.1 PWD SR 2016-17**	Sqm							
			1	1.25		1.50	60.00		
			1	1.50		1.80	2.70		
			1	1.50		1.80	2.70		
	Basic Rate	1072.00					**65.40**	1157.76	**75718.00**
	Area Weightage @ 8%	85.76							
	Total	**1157.76**							
17	SOLID PVC DOOR FRAME Providing & fixing factory made PVC Door frame of size 50x47mm with a wall thickness of 5mm, made out of extruded 5mm rigid PVC foam sheet metered cut at corners & jointed 2 No.s of 150mm long brackets of 15x15mm M.S Square tube, the entire door frame to be reinforced with 19x19mm M.S Square tube of 19 gauge. The door frame to be fixed to the wall using M.S. Screws of 65/80mm size **Page No. 56, Item No. 9.84, PWD SR 2016-**	Sqm							
			2	0.75		2.10	3.15		
	Basic Rate	526.00					**3.15**	568.08	**1789.00**
	Area Weightage @ 8%	42.08							
	Total	**568.08**							
18	SOLID PANEL PVC DOOR SHUTTER Providing & fixing 30mm thick factory made rigid foam Panelled Door Shutters made from M.S. tube of 19 gauge thickness, size 19x19mm fro styles and 15x15mm for top & bottom rails, covered with heat moulded PVC channel of 5mm thick sheet & 30 x 50mm wide to form styles & 5mm thick & 75mm wide PVC Sheets for top rail, lock rail & bottom rail on either side & 5mm thick 20mm wide PVC sheet as gap insert for top rail & bottom rail, Panelling of 5mm thick PVC sheet fitted in the M.S. Frame, Sealed to the styles & rails with 5x30mm PVC sheet beading on either side & joined together with solvent cement adhesive etc., Complete as per manufacturers specification & direction of Engineer-in-charge fixed to frames with 3 nos of 75 m.m Aluminium hinges. **Page No. 56, Item No. 9.83, PWD SR 2016-17**	Sqm							
			2	0.75		2.10	3.15		
	Basic Rate	3193.00					**3.15**	3448.44	**10863.00**
	Area Weightage @ 8%	255.44							
	Total	**3448.44**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
19	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.) - 20mm nominal OD pipes. **(P.No.96, I.No. 13.86.2 of PWD SR 2016-17)**	M							
			1	40.00			**40.00**	226.80	**9072.00**
	Basic Rate	210.00							
	Area Weightage @ 8%	16.80							
	Total	226.80							
20	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spat & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.) - 25mm nominal OD pipes **(P.No.96, I.No. 13.86.3 of PWD SR 2016-17)**	m							
			1	35.00			**35.00**	270.00	**9450.00**
	Basic Rate	250.00							
	Area Weightage @ 8%	20.00							
	Total	270.00							
21	KSRB13-6.3-3 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 25mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.6 / 13.3. **(P.No.91/ I.No. 13.34 of CSR 2016-17)**	Each							
			10				**10.00**	648.00	**6480.00**
	Basic Rate	600.00							
	Area Weightage @ 8%	48.00							
	Total	648.00							
22	KSRB13-8.5 : Providing and fixing to wall, ceiling and floor, low density polyethylene pipes 6.00 kgf/sq.cm working pressure 140mm outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Specification No.KBS 13.2.15.1 / 13.9 **Page No. 93,Item No. 13.70.6, PWD SR 2016-17**	m							
			1	40.00			**40.00**	574.56	**22982.00**
	Basic Rate	532.00							
	Area Weightage @ 8%	42.56							
	Total	574.56							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
23	KSRB 12-8.1 : Constructing brick masonry inspection chamber **455 x 610 mm and 450mm depth**, (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover withframe (light duty) 455x610mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23kg and weight of frame 15 kg) R.C.C. top slab with cement concrete M 15 with 20mm and downsize granite metal, foundation concrete M 5 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finish smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specifications. Specification No. KBS (**P.No. 73/ I. No. 11.50 of PWD SR 2016-17**)	Nos							
			4				**4.00**	7604.28	**30417.00**
	Basic Rate	7041.00							
	Area Weightage @ 8%	563.28							
	Total	7604.28							
24	KSRB 11-11.8 : Providing and fixing white vitreous china clay, surgeon type wash basin size 660x460mm with a pair of 15mm C.P brass pillar taps with pair of elbow operated levers, C.I / M.S brackets, 32 mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. KBS 11 **Page No. 81, Item No. 12.30, PWD SR 2016-17**	Unit							
			2				**2.00**	4945.32	**9891.00**
	Basic Rate	4579.00							
	Area Weightage @ 6%	366.32							
	Total	4945.32							
25	KSRB13-6.1-3 : Providing and fixing in position brass bib cock of approved quality 25mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.2 / 13.3. **(P.No.91/ I.No. 13.25 of CSR 2016-17)**	Each							
			10				**10.00**	297.00	**2970.00**
	Basic Rate	275.00							
	Area Weightage @ 8%	22.00							
	Total	297.00							
26	KSRB 11-2 : Providing and fixing white vitreous china clay, water closet Orissa pattern of size 580 x 440mm with integral type footrests, 100mm S or P trap, 10 litre low level, P.V.C flushing cistern (all are approved make) with fittings, C.I / M.S brackets, 32mm diameter flush pipe fittings and clamps, overflow arrangements with special and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11. **(P.No. 77, I.No. 12.2 of PWD SR 2016-17)**	Pan							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
			2				**2.00**	4682.88	**9366.00**
	Basic Rate	4336.00							
	Area Weightage @ 8%	346.88							
	Total	4682.88							
27	KSRB 13-11.1 : Providing and placing on terrace, polyethylene water storage tanks with manhole lid and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM of equipments and testing complete as per specifications. **(For 1000 litre capacity) Specification No.KBS 13.22 Page No. 94, Item No. 13.78, PWD SR 2016-17**	Nos							
			1				**1.00**	9144.36	**9144.00**
	Basic Rate	8467.00							
	Area Weightage @ 8%	677.36							
	Total	9144.36							
28	KSRB 11-15.3 : Providing and fixing 453x357mm dia rectangular shape mirror with plastic moulded frame of approved make and shade with 6mm thick hard board backing including cost of materials, labour complete as per specifications. **(P.No.82, I.No. 12.41 of PWD SR 2016-17)**	Unit							
			2				**2.00**	1274.40	**2549.00**
	Basic Rate	1180.00							
	Area Weightage @ 8%	94.40							
	Total	1274.40							
	Sub Total								**449695.00**
	~~KRIDL Charges @~~ 10% TENDER PREMIUM								**44970.00**
	~~Labour Coss @~~ 1% THIRD PARTY INSPECTION CHARGES.								**4497.00**
	Miscellaneous and Unforeseen Charges	L/S							**838.00**
								Total	**500000.00**

Rupees Five Lakh(s) Only

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per C.S.R. of PWD 2016-17.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 08

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Kodigehalli Sub Division

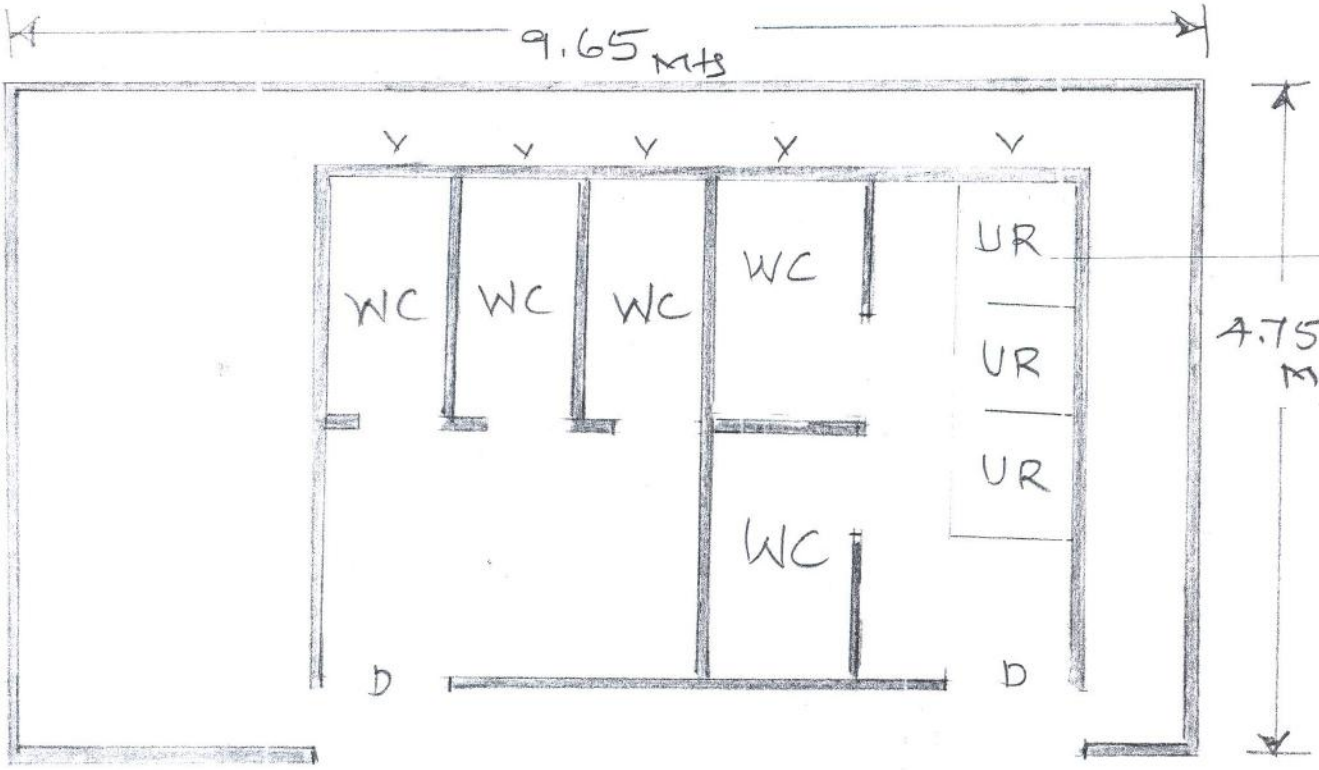
Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Sub Division

ADMINISTRATIVE APPROVAL
Accorded For Rs. Five lakhs only
Head of A/c. P-3294
Div. Ref. No. 155/17-18 Date. 06/01/18
AE 6/01
EE(BTP) 6/01

TECHNICAL SANCTION
Accorded For Rs. Five lakhs only
Head of A/c. P-3294
Div. Ref. No. 48/17-18 Date. 06/01/18
AE 6/01
EE(BTP) 6/01

Name of Work: Repairs and Maintenance of Public Toilet in Ward No. 08 Kodigehalli.



PROPOSED COMPOUNDWALL

EXISTING TOILET BLOCK.

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

DIVISION: BYATARAYANAPURA

SUB DIVISION: KODIGEHALLI

Name of Work: ***Estimate for Improvements to Footpath and Drains at Sahakaranagara in Ward No. 08, Kodigehalli.***

Job Code: 008-18-000042

Estimated Cost: ***Rs. 15.00 Lakhs***

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of work: Estimate for Improvements to Footpath and Drains at Sahakaranagara in Ward No. 08, Kodigehalli.

				Est Cost Rs.				1500000.00	
Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork **excavation by manual means in ordinary** soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 **Page No. 142 / Item No. 19.1, PWD SR 2016-17**	Cum							
	Railway Gate Parallel Road		1	635.00	0.60	0.45	171.45		
	Basic Rate	82.00					**171.45**	199.36	**34181.00**
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.5 / km= 38.08	38.08							
		188.08							
	Area Weightage @6%	11.28							
	Total	**199.36**							
2	Removing and resetting of footpath slab **(P.No. 265, I.No. 37.56 of SR 2016-17).**	Sqm							
			1	635.00		1.20	762.00		
	Basic Rate	125.00					**762.00**	132.50	**100965.00**
	Area Weightage @ 6%	7.50							
	Total	**132.50**							
3	KSRB 4-1.6 ; Providing and laying in position **plain cement concrete of mix 1:2:4** with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation, plinth and cills**, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page No.12, Item No. 4.6 PWD SR 2016-17**	Cum							
			1	635.00	0.60	0.10	38.10		
	Basic Rate	5441.00					**38.10**	5767.46	**219740.00**
	Area Weightage @ 6%	326.46							
	Total	**5767.46**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
4	Providing **precast slab of 100 mm thick** including cost of all materials, labour, curing, transportation, loading unloading, etc., complete as per the direction of engineer in charge- Data rate	Sqm							
	Damaged Slabs		436	1.20	0.60		313.92		
							313.92	1820.56	**571510.00**
5	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete **Page No. 25 / Item No. 5.30 PWD SR 2016-17**	No							
	Missing Kerb Stone		2	250.00			1111		
				0.45					
							1111	331.78	**368644.00**
	Basic Rate	313.00							
	Area Weightage @ 6%	18.78							
	Total	**331.78**							
6	KSRB 15-19.1 : Providing and applying ready mix priming coat over concrete / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after thoroughly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications. **Page No. 122 / Item No. Item No. 15.80, PWD SR 2016-17**	Sqm							
	Kerb Stone Painting		2	635.00		0.45	571.50		
	Basic Rate	26.00					**571.50**	27.56	**15751.00**
	Area Weightage @ 6%	1.56							
	Total	**27.56**							
7	KSRB 15-19.2 : Providing and applying spray painting in two coats (excluding priming coat) over concrete / masonry / asbestos cement sheet / plastered surfaces with flat wall paint of approved brand to give even shade after cleaning the surface of all dirt, dust and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications.**Page No. 122 / Item No. Item No. 15.81, PWD SR 2016-17**	Sqm							
			Qty Vide Item No. 8				571.50		
	Basic Rate	66.00					**571.50**	69.96	**39982.00**
	Area Weightage @ 6%	3.96							
	Total	**69.96**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Sub Total								1350773.00
	Tender Premium @ 10%								135077.00
	Labour Cess Charges @ 1%								13508.00
	Add for unforseen and rounding off	L/S							642.00
								Total	1500000.00
	Rupees Fifteen Lakh(s) Only								

Certificate:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per P.W.D S.R of 2016-17.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 08

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Kodigehalli Sub Division

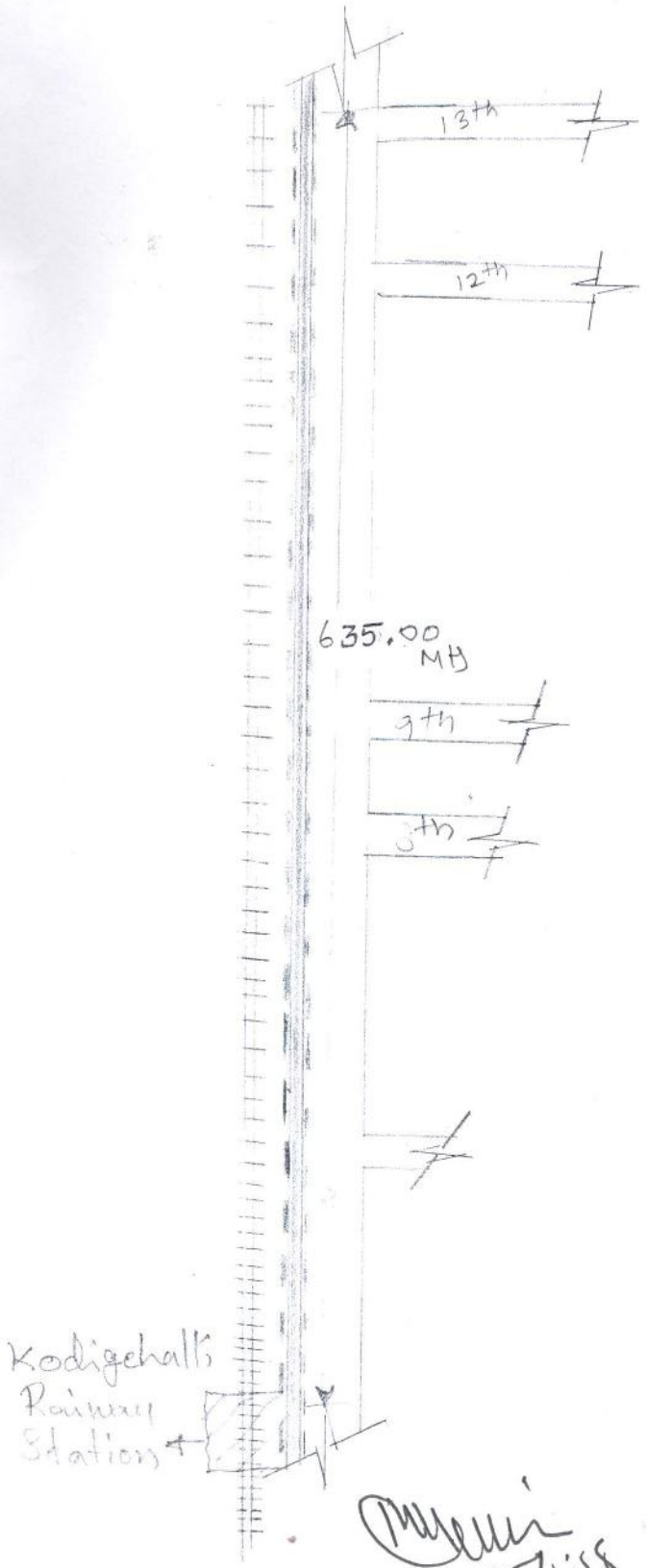
Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

Administrative Approval
Accorded For 15.00 lakhRs.
Head of A/C... P3296
CER NO :.....190..... Dt:..10/01/18

TA CE (YNK)

TECHNICAL SANCTION
Accorded For Rs. Fifteen lakhs only
Head of A/C. P-3296
Div. Ref. No. 54/12-18 Date. 05/02/18
EE(BTP) 5/2
AE 05/02

Name of Work: Improvements to Footpath and Drains at Sahakaranagara in Ward No. 08 Kodigehalli



Index:

Kerb Stone Painting

Footpath

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

DIVISION: BYATARAYANAPURA

SUB DIVISION: KODIGEHALLI

***Name of Work**: Estimate for Improvements to Roads and Drains in Ward No. 08, Kodigehalli.*

Job Code: 008-18-000043

Estimated Cost: ***Rs. 15.00 Lakhs***

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of work: **Estimate for Improvements to Roads and Drains in Ward No. 08, Kodigehalli.**

008-18-000043		P-3296 14th Finance			Est Cost Rs.			1500000.00	
Sl No	**Description of item**	**Unit**	**No**	**L**	**B**	**D**	**Qty**	**Rate**	**Amount**
1	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork **excavation by manual means in ordinary** soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 **Page No. 142 / Item No. 19.1, PWD SR 2016-17**	Cum							
	13th Cross		2	410.00	0.60	0.45	221.40		
	Culverts		2	6.00	2.00	1.20	28.80		
	Basic Rate	82.00					**250.20**	199.36	**49881.00**
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.5 / km= 38.08	38.08							
		188.08							
	Area Weightage @6%	11.28							
	Total	**199.36**							
2	Removing and resetting of footpath slab **(P.No. 265, I.No. 37.56 of SR 2016-17)**.	Sqm							
			2	410.00		0.90	738.00		
	Basic Rate	125.00					**738.00**	132.50	**97785.00**
	Area Weightage @ 6%	7.50							
	Total	**132.50**							
3	KSRB 4-1.2 : Providing and laying in position **plain cement concrete of mix 1:3:6** with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation** including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **(P.No. 12/I.No. 4.2 of CSR 2016-17)**								
			2	6.00	2.00	0.15	3.60		
	Basic Rate	5046.00					**3.60**	5348.76	**19256.00**
	Area Weightage @ 6%	302.76							
	Total	**5348.76**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
4	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in **foundation with cement mortar 1:6, stone** hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 **Page No. 23 / Item No. 5.6, PWD SR 2016-17**								
			4	6.00	0.60	0.45	6.48		
	Basic Rate	4187.00					**6.48**	4438.22	**28760.00**
	Area Weightage @ 6%	251.22							
	Total	**4438.22**							
6	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in **basement with cement mortar 1:6**, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 **Page No. 23 / Item No. 5.9, PWD SR 2016-17**								
			4	6.00	0.45	0.45	4.86		
	Basic Rate	5005.00					**4.86**	5305.30	**25784.00**
	Area Weightage @ 6%	300.30							
	Total	**5305.30**							
7	KSRB 15.1.3 Providing **ruled pointing** to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications **Page No. 113 / Item No. 15.3, PWD SR 2016-17**	Sqm							
			4	6.00		0.90	21.60		
	Basic Rate	98.00					**21.60**	103.88	**2244.00**
	Area Weightage @ 6%	5.88							
	Total	**103.88**							
3	KSRB 4-1.6 ; Providing and laying in position **plain cement concrete of mix 1:2:4** with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation, plinth and cills**, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page No.12, Item No. 4.6 PWD SR 2016-17**	Cum							
	Drain Vent Concrete		2	400.00	0.60	0.10	48.00		
	Culvert Coping and Vent		2	6.00	1.80	0.10	2.16		
	Ramp		2x2	6.00	1.00	0.15	3.60		
	Basic Rate	5441.00					**53.76**	5767.46	**310059.00**
	Area Weightage @ 6%	326.46							
	Total	**5767.46**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
12	Providing **precast slab of 250 mm thick** including cost of all materials, labour, curing, transportation, loading unloading, etc., complete as per the direction of engineer in charge- Data rate	Sqm							
			20	1.80	0.60		21.60		
							21.60	5125.00	**110700.00**
4	Providing **precast slab of 100 mm thick** including cost of all materials, labour, curing, transportation, loading unloading, etc., complete as per the direction of engineer in charge- Data rate	Sqm							
	Damaged Slabs		430	1.20	0.60		309.60		
							309.60	1820.56	**563645.00**
5	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete **Page No. 25 / Item No. 5.30 PWD SR 2016-17**	No							
	Missing Kerb Stone		1	145.00			322		
				0.45					
							322	331.78	**106907.00**
	Basic Rate	313.00							
	Area Weightage @ 6%	18.78							
	Total	**331.78**							
6	KSRB 15-19.1 : Providing and applying ready mix priming coat over concrete / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after thoroughly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications. **Page No. 122 / Item No. Item No. 15.80, PWD SR 2016-17**	Sqm							
	Kerb Stone Painting		2	410.00		0.45	369.00		
	Basic Rate	26.00					**369.00**	27.56	**10170.00**
	Area Weightage @ 6%	1.56							
	Total	**27.56**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
7	SRB 15-19.2 : Providing and applying spray painting in two coats (excluding priming coat) over concrete / masonry / asbestos cement sheet / plastered surfaces with flat wall paint of approved brand to give even shade after cleaning the surface of all dirt, dust and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications.**Page No. 122 / Item No. Item No. 15.81, PWD SR 2016-17**	Sqm							
			Qty Vide Item No. 6				369.00		
	Basic Rate	66.00					**369.00**	69.96	**25815.00**
	Area Weightage @ 6%	3.96							
	Total	**69.96**							
	Sub Total								**1351006.00**
	Tender Premium @ 10%								**135101.00**
	Third Party Inspection Charges @ 1%								**13510.00**
	Add for unforseen and rounding off	L/S							**383.00**
								Total	**1500000.00**
Rupees Fifteen Lakh(s) Only									

Certificate:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per P.W.D S.R of 2016-17.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 08

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Kodigehalli Sub Division

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

10/01

Administrative Approval
Accorded For 15.00 lakh Rs.
Head of A/C....P3296
CER NO :....191.... Dt:.. 10/01/18

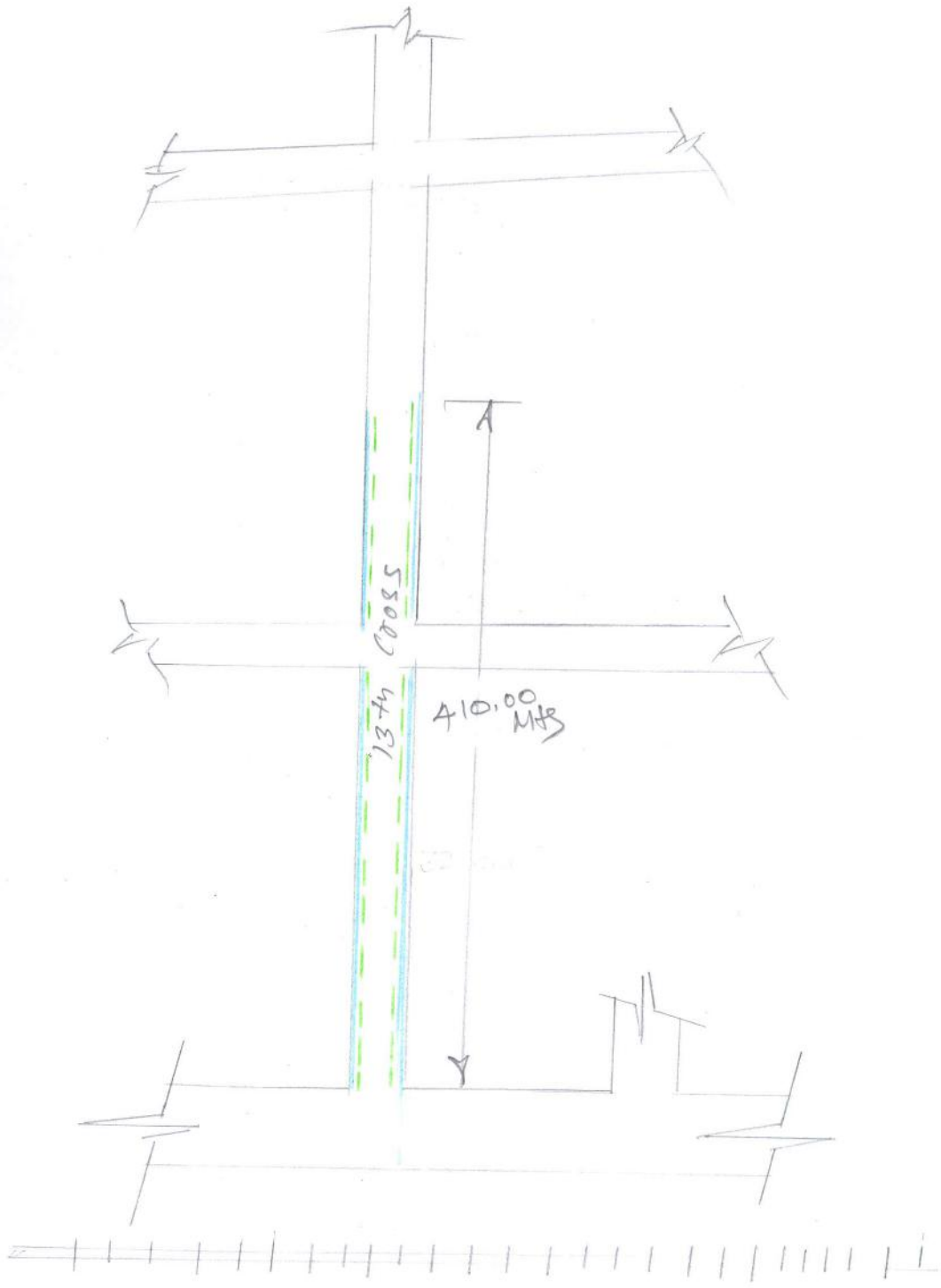
TA CE (YNK)

TECHNICAL SANCTION
Accorded For Rs. Fifteen lakhs only
Head of A/c....P-3296
Div. Ref. No. 51/17-18 Date 5/02/18

AE 05/02

EE(BTP) 5/2

Name of Work: Improvements to Roads and Drains in Ward No. 08, Kodigehalli.



Assistant Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

DIVISION: BYATARAYANAPURA

SUB DIVISION: KODIGEHALLI

Name of Work: ***Estimate for Providing C C Camera at Garbage Block Sports in Ward No. 08.***

Job Code: 008-17-000055

Estimated Cost: ***Rs. 10.00 Lakhs***

BRUHAT BANGALORE MAHANAGARA PALIKE
YELAHANKA ZONE

Name of Work: Estimate for Providing C C Camera at Garbage Block Sports in Ward No. 08.

			Estimate Cost:				1000000.00		
Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	Outdoor PLZ IP Cameras with 20 X optical zoom with controller along with suitable mounting system (PTZ Pan Tilt	Nos							
	Approved Data Rate								
	In Ward limits		1				1.00		
							1.00	78462.00	**78462.00**
	Total	78462.00							
2	Bracket (Corner Mount / Pole Mount/ Wall Mount) for mounting the PTZ camera.	Nos							
	Approved Data Rate								
	In Ward limits		6				6.00		
							6.00	4267.00	**25602.00**
	Total	4267.00							
3	Outdoor 50 Meter IP Cameras with IR & Mounting Bracket (with IR for day and night vision and can provide a viewing distance of 50 metres)	Nos							
	Approved Data Rate								
	In Ward limits		6				6.00		
							6.00	21160.00	**126960.00**
	Total	21160.00							
4	Bracket and weatherproof Installation kit for 50 Meter IP Camera	Nos							
	SR Page no 15, Item no 4.18								
	Approved Data Rate								
	In Ward limits		6				6.00		
							6.00	1545.00	**9270.00**
	Total	1545.00							
5	Outdoor 30 Meter IP Cameras with IR & Mounting Bracket (with IR for day and night vision and can provide a viewing distance of 30 metres)	Nos							
	Approved Data Rate								
	In Ward limits		6				6.00		
							6.00	15260.00	**91560.00**
	Total	15260.00							
6	Bracket and weatherproof Installation kit for 30 Meter IP Camera	Nos							
	Approved Data Rate								
	In Ward limits		6				6.00		
							6.00	1491.00	**8946.00**
	Total	1491.00							
7	32 Channel NVR DS 7732 NI- E4 (with 4 Sata Option) the control box and the recording device to connect upto 32 devices, can be cascaded to provide additional cameras	Nos							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Approved Data Rate								
	In Ward limits		1				1.00		
							1.00	66982.00	**66982.00**
	Total	66982.00							
8	12 TB NAS Box for Back up (NET GEAR) provides storage for the recorded data for quick view back and storage	Nos							
	Approved Data Rate								
	In Ward limits		1				1.00		
							1.00	257420.00	**257420.00**
	Total	257420.00							
9	4 TB SATA for storage and fitted in the NVR Device for storage	Nos							
	Approved Data Rate								
	In Ward limits		2				2.00		
							2.00	22850.00	**45700.00**
	Total	22850.00							
10	A suitable sheet metal control panel to house site Equipments (Weather Proof) The power supply and the ethernet connectivity adaptor is stored in this box.	Nos							
	Approved Data Rate								
	In Ward limits		12				12.00		
							12.00	1526.00	**18312.00**
	Total	1526.00							
11	Power supply for the camera.	Nos							
	Approved Data Rate								
	In Ward limits		12				12.00		
							12.00	461.00	**5532.00**
	Total	461.00							
12	Ethernet Switch for connectivity to Internet and Camera	Nos							
	Approved Data Rate								
	In Ward limits		12				12.00		
							12.00	950.00	**11400.00**
	Total	950.00							
13	Supply & Laying of Network and Power Cables from Camera to the control Box.	Nos							
	Approved Data Rate								
	In Ward limits		9				9.00		
							9.00	389.00	**3501.00**
	Total	389.00							
14	Video Manager Application Software for Display and Management of Camera on Video Display.	Nos							
	Approved Data Rate								
	In Ward limits		6				6.00		
							6.00	20000.00	**120000.00**
	Total	20000.00							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
15	Installation, Erection & commissioning charges	Nos							
	Approved Data Rate								
	In Ward limits		6				6.00		
							6.00	5060.00	**30360.00**
	Total	5060.00							
	Sub Total								**900007.00**
	~~KRIDL Charges @~~ 10% TENDER PREMIUM								**90001.00**
	~~Labour Cess @~~ 1% THIRD PARTY INSPECTION CHARGES.								**9000.00**
	Miscellaneous								**992.00**
								Total	**1000000.00**

Rupees Ten Lakh(s) Only

Certificate:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per Approved Rates.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 08

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Kodigehalli Sub Division

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

ADMINISTRATIVE APPROVAL
Accorded For Rs. Ten lakhs only
Head of A/c. P-3110
Div. Ref. No. 156/17-18 Date. 6/01/17
AE 6/01
EE(BTP) 6/01

TECHNICAL SANCTION
Accorded For Rs. Ten lakhs only
Head of A/c. P-3110
Div. Ref. No. 49/17-18 Date. 6/01/17
AE 6/01
EE(BTP)

BRUHAT BANGALORE MAHANAGARA PALIKE

Project: Construction and Improvements of toilets in Ward No 08 Byatarayanapura Sub Division

Est Cost: 50.0Lakh

Sl. No	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
1	Dismantling cement concrete flooring or plain cement concrete work including removing and conveying the debris to distance upto 200m (within average thickness of 15 cms)(item no 37.51page no 258)								
	Toilet 2 in Tatanagar								
	Fooring	4	1	1.73	0.96	0.15	1.00		
		3	1	1.43	2.06	0.15	1.33		
	Total Qty	Cum					2.32	159.40	370.14
	Basic rate	55.00							
	Loading and unloading with 10km lead= 68+2.5x1.28x10 = 100	100.00							
	Area Weightage 8%	4.40							
	Final Rate	159.40							
2	KSRRB M200-14.2. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. ii) Dismantling brick/Tile work B. In cement mortar. MORTH								
	Toilet 2 in Tatanagar								
	tile work dadoing solidblo	4	1	1.73	1.85	0.250	3.20		
		4	1	0.96	1.85	0.250	1.78		
		4	1	1.43	1.85	0.250	2.65		
		4	1	2.16	1.85	0.250	4.00		
	Total Qty	Cum					11.62	363.52	4223.38
	Basic rate	244.00							
	Loading and unloading with 10km lead= 68+2.5x1.28x10 = 100	100.00							
	Area Weightage 8%	19.52							
	Final Rate	363.52							
3	KSRB 2-2.1 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(a) / 2.3.5 (Page no -5, item no - 2.3)								
	Toilet 1in Sahakar nagara								
	Footings	1	9	1.40	1.40	1.50	26.46		
	Foundation	1	1	30.80	1.10	1.30	44.04		
	Toilet 2 in Tatanagar								
	Footings	1	4	1.40	1.40	1.50	11.76		
	Foundation	1	1	21.60	1.10	1.30	30.89		

			1	21.60	0.80	0.90	15.55		
	Total Qty	**Cum**					**128.70**	**204.12**	**26271.06**
	Basic rate	189.00							
	Area Weightage 8%	15.12							
	Final Rate	204.12							
4	KSRB 2.14-1: Extra for additional lift of 1.5m. or part thereof for excavation In loose / soft or hard soil including cost of materials, labour complete as per specifications. (Page no -7, item no - 2.21)								
	Toilet 1in Sahakar nagara								
	Footings	1	9	1.40	1.40	0.80	14.11		
	Toilet 2 in Tatanagar								
	Footings	1	4	1.4	1.4	0.80	6.27		
	Total Qty	**Cum**					**20.38**	**218.16**	**4446.97**
	Basic rate	202.00							
	Area Weightage 8%	16.16							
	Final Rate	218.16							
5	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892cum and fine aggregates @ 465 cum machine mixed, machine mixed,concrete laid in layers not exceeding 15 cms, thick well compacted, in foundation and plinth, including cost of all material, labour HOM Machinery curing complete as per specification,(Page. No. 12 item No. 4.2								
	Toilet 1in Sahakar nagara								
	Footings	1	9	1.40	1.40	0.15	2.65		
	Plinth Beam	1	1	63.26	0.20	0.15	1.90		
	Foundation	1	1	30.80	1.10	0.15	5.08		
	Toilet 2 in Tatanagar								
	Footings	1	4	1.4	1.4	0.15	1.18		
	Plinth Beam	1	1	28.8	0.2	0.15	0.86		
	Foundation	1	1	28.8	1.1	0.15	4.75		
			1	17	0.8	0.15	2.04		
	Total Qty	**Cum**					**18.46**	**5449.68**	**100589.10**
	Basic rate	5046.00							
	Area Weightage 8%	403.68							
	Final Rate	5449.68							
6	KSRB 5.1-3 : Providing and constructing granite / trap / basalt rubble stone masonry in foundation with cement mortar 1:6 (uncoursed), bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.12(Page. No. 22 Item No.5.3)								
	Toilet 1in Sahakar nagara								
	Foundation		1	30.80	0.90	0.45	12.47		
			1	30.80	0.60	0.45	8.32		
			1	30.80	0.45	0.45	6.24		
	Toilet 2 in Tatanagar								
	Foundation		1	28.8	0.90	0.45	11.66		
			1	20	0.60	0.45	5.40		

	Total Qty	Cum					44.09	3508.92	154711.79
	Basic rate	3249.00							
	Area Weightage 8%	259.92							
	Final Rate	3508.92							
7	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13(Page. No. 23 Item No. 5.9								
	Toilet 1in Sahakar nagara								
	Foundation		1	30.80	0.45	0.45	6.24		
	Toilet 2 in Tatanagar								
	Foundation		1	28.8	0.45	0.23	2.98		
	Total Qty	Cum					9.22	5405.40	49825.90
	Basic rate	5005.00							
	Area Weightage 8%	400.40							
	Final Rate	5405.40							
8	KSRB 15.1.1 Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications.								
	Toilet 1in Sahakar nagara								
	Pointing	1	2	30.80		0.45	27.72		
		1	2	30.80		0.45	27.72		
		1	2	30.80		0.45	27.72		
	Toilet 2 in Tatanagar								
			1	28.8		0.45	12.96		
			1	20		0.45	9.00		
			1	20		0.45	9.00		
	Total Qty	Cum					114.12	104.76	11955.21
	Basic rate	97.00							
	Area Weightage 8%	7.76							
	Final Rate	104.76							
9	KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2(Page No : 15, item No : 4.28)								
	Toilet 1in Sahakar nagara								
	Footings	1	9	4.80		0.50	21.60		
	Toilet 2 in Tatanagar								
	Footings	1	4	4.80		0.50	9.60		
	Total Qty	Sqm					31.20	249.48	7783.78
	Basic rate	231.00							
	Area Weightage 8%	18.48							
	Final Rate	249.48							

10	KSRB 4-6.5 : Providing and removing centering, shuttering, strutting, propping etc., for columns, pillars, post and struts, square / rectangular/ polygon in plan including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 (Page No : 16, item No : 4.32)								
	Toilet 1in Sahakar nagara								
	Columns	1	9	1.10		5.20	51.48		
	Toilet 2 in Tatanagar								
	Columns		4	1.10		5.20	22.88		
	Total Qty	**Sqm**					**74.36**	**395.28**	**29393.02**
	Basic rate	366.00							
	Area Weightage 8%	29.28							
	Final Rate	395.28							
11	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2(Page No : 16, item No : 4.31)								
	Toilet 1in Sahakar nagara								
	For Ground Floor								
	Plinth Beam	1	2	63.26		0.30	37.96		
	Toilet 2 in Tatanagar								
	Plinth Beam	1	2	28.8		0.30	17.28		
	Total Qty	**Sqm**					**55.24**	**316.44**	**17478.88**
	Basic rate	293.00							
	Area Weightage 8%	23.44							
	Final Rate	316.44							
12	KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for suspended floors, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specificaitonsupto 3.50m from ground level. Specification No. KBS 4.6.2(Page No : 15, item No : 4.18)								
	Toilet 1in Sahakar nagara								
	Roof Slab	1	1	8.60	8.60		73.96		
	Toilet 2								
	Roof Slab	1	1	6.30	3.95		24.89		
	Total Qty	**Sqm**					**98.85**	**338.04**	**33413.56**
	Basic rate	313.00							
	Area Weightage 8%	25.04							
	Final Rate	338.04							
13	KSRB 4-6.7 :Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2(Page No . 16, item No : 4.34)								
	Toilet 1in Sahakar nagara								
	Lintel	2	1	40.06		0.20	16.02		
	Roof beam	2	1	25.80		0.35	18.06		
	Toilet 2								

	Lintel	2	1	38.06		0.200	15.22		
	Roof beam	2	1	22.67		0.350	15.87		
	Total Qty	**Sqm**					**65.18**	**276.48**	**18020.14**
	Basic rate	256.00							
	Area Weightage 8%	20.48							
	Final Rate	276.48							
14	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of Design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.460 cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6 (Page No : 13, item No : 4.11)								
	Toilet 1in Sahakar nagara								
	Footings	1	9	1.20	1.20	0.50	6.48		
	Columns	1	9	0.15	0.40	5.20	2.81		
	Plinth Beam	1	1	63.26	0.20	0.30	3.80		
	Toilet 2 in Tatanagar								
	Footings		4	1.2	1.20	0.50	2.88		
	Columns		4	0.15	0.40	5.20	1.25		
	Plinth Beam		1	38.06	0.2	0.30	2.28		
	Total Qty	**Cum**					**19.50**	**6491.88**	**126560.50**
	Basic rate	6011.00							
	Area Weightage 8%	480.88							
	Final Rate	6491.88							
15	KSRB 4.2.8: Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @ 0.46cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintles, and beams retaining walls, return walls, walls (any thickness) including attached plasters, columns, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6. (P. No. 14/ I.No. 4.13								
	Toilet 1in Sahakar nagara								
	Roof Slab		1	8.60	8.60	0.15	11.09		
	Lintel	1	1	40.06	0.20	0.20	1.60		
	Toilet 2 in Tatanagar								
	Lintel	1	1	38.06	0.20	0.20	1.52		
	Roof Slab	1	1	6.30	3.95	0.15	3.73		
	Total Qty	**Cum**					**17.95**	**6650.64**	**119389.30**
	Basic rate	6011.00							
	Area Weightage 8%	480.88							

	Final Rate	6491.88							
16	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 - TMT bars Fe 500 (Page No : 17, item No : 4.46.2)								
	Toilet 1in Sahakar nagara								
	Roof Slab								
	120kg/cum for Footings			9.36	120.00		1123.20		
	180kg/cum for Columns			4.06	180.00		730.08		
	100kg/cum for Beams			40.01	100.00		4000.82		
	100kg/cum for Slabs			14.83	100.00		1482.68		
	60kg/cum for Plinth, Lintel and Chajja			5.34	60.00		320.11		
							7656.88		
	Total Qty	Tonne					7.66	65455.56	501185.63
	Basic rate	60607.00							
	Area Weightage 8%	4848.56							
	Final Rate	65455.56							
17	KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto SO m. and lift upto 1.S m. including cost of all labour complete as per specifications. specification. No. KBS(Page No : 6, item No : 2.10)								
	Toilet 1in Sahakar nagara								
	Around Footings	1	9	1.40	1.40	0.90	15.88		
		1	4	1.40	1.40	0.90	7.06		
	Total Qty	Cum					**22.93**	137.16	3145.35
	Basic rate	127.00							
	Area Weightage 8%	10.16							
	Final Rate	137.16							
18	KSRB 5-11 : Providing and constructing load bearing wall with solid concrete blocks of size 400x200x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4(Page No :25, item No :								
	Toilet 1in Sahakar nagara								
	Walls	1	1	38.20		2.70	103.14		
	Deduction for openings								
	Door D1	2	-1	1.20		2.10	-5.04		
	Door D2	1	-1	0.90		1.85	-1.67		
	Ventilators	1	-1	0.60		0.60	-0.36		
	Opening for ventilation	1	-4	3.20		0.30	-3.84		

	Toilet 2 in Tatanagar								
	walls	1	1	18.02		2.70	48.65		
	Deduction for openings								
	Door D2	2	-1	0.90		1.85	-3.33		
	Ventilators	4	-1	0.60		0.60	-1.44		
	Total Qty	**Sqm**					**136.12**	1011.96	137746.98
	Basic rate	937.00							
	Area Weightage 8%	74.96							
	Final Rate	1011.96							
19	KSRB 5-11 : Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4(Page No :25, item No :								
	Toilet 1in Sahakar nagara								
	Internal walls	1	1	27.75		2.00	55.50		
	Deduction for openings								
	Door D2	1	-9	-0.60		1.90	10.26		
	Toilet 2 in Tatanagar								
	Internal walls	1	1	18.37		2.00	36.74		
	Deduction for openings								
	Door D2	1	5	-0.75		1.90	-7.13		
	Toilet Tatanagar park								
	Internal walls	1	1	18.37		2.00	36.74		
	Deduction for openings								
	Door D2	1	5	-0.75		1.90	-7.13		
	parapet wall	1	1	34.58		0.90	31.12		
	Total Qty	**Sqm**					**156.11**	979.56	152921.07
	Basic rate	907.00							
	Area Weightage 8%	72.56							
	Final Rate	979.56							
20	KSRB15-3.10 : Providing 20mm thick cement plaster in single coat with cement mortar 1:6, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering. : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.(Page No :114, item No : 15.20)								
	External plaster								
	Toilet 1in Sahakar nagara		1	30.40		2.7	103.14		
	Toilet 2 in Tatanagar		1	18.02		2.7	48.654		
	Toilet Tatanagar park		1	18.02		2.7	48.654		
	Total Qty	**Sqm**					**200.45**	224.64	45028.64
	Basic rate	208.00							
	Area Weightage 8%	16.64							
	Final Rate	224.64							

21	KSRB15-3.4 : Providing 15mm thick cement plaster in single coat with cement mortar 1:3, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications...(Page No.113, Item No.15.12)								
	Internal Plastering								
	Toilet 1in Sahakar nagara								
	Walls	1	1	38.20		2.70	103.14		
	Deduction for openings								
	Door D1	2	-1	1.20		2.10	-5.04		
	Door D2	1	-1	0.90		1.85	-1.67		
	Ventilators	1	-1	0.60		0.60	-0.36		
	Opening for ventilation	1	-4	3.20		0.30	-3.84		
	Toilet 2 in Tatanagar								
	walls	1	2	39.96		2.70	215.78		
	Deduction for openings								
	Door D2	2	-1	0.90		1.85	-3.33		
	Door D1	4	-1	0.75		1.85	-5.55		
	Ventilators	3	-1	0.60		0.60	-1.08		
	Toilet Tatanagar park								
	Internal walls	1	2	29.60		2.70	159.84		
	Deduction for openings								
	Door D2	1	-9	-0.60		1.90	10.26		
		Total Qty	Sqm				468.16	221.40	103650.40
	Basic rate	205.00							
	Area Weightage 8%	16.40							
	Final Rate	221.40							
	KSRB15-3-13 : Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to ceiling including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. (P.No. 113, I.No. 15.21 of PWD SR 2015-16)								
	Ceiling	1	1	8.60	8.60		73.96		
		1	1	6.30	3.95		24.89		
	Total Qty	Sqm					98.85	208.44	20603.25
	Basic rate	193.00							
	Area Weightage 8%	15.44							
	Final Rate	208.44							
22	KSRB 15.10.2 Providing white washing for every one additional coat with lime of approved quality, to give an even shade including cost of materials, labour, complete as per specifications. (Page No. 115, Item No. 15.39)								
	Same As Internal Plastering Qnty								
	Total Qty	Sqm					468.16	4.32	2022.45
	Basic rate	4.00							
	Area Weightage 8%	0.32							
	Final Rate	4.32							

23	KSRB 15.10.4 Providing white washing to ceiling and / or sloping roof surface with additional one coat with lime of approved quality, to give an even shade including cost of materials, labour, complete as per specifications.(Page No. 115, Item No. 15.41)								
	Same AsCeiling Plastering Qnty								
	Total Qty	**Sqm**					**98.85**	**4.32**	**427.01**
	Basic rate	4.00							
	Area Weightage 8%	0.32							
	Final Rate	4.32							
24	KSRB 15-16.1 : Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. - with primer. (P. No.								
	Same As External Plastering Qnty								
	Total Qty	**Sqm**					**200.45**	**93.96**	**18834.09**
25	Providing and applying two coats with Plastic emulsion paint of approved brand wall surface to a give an even approved shade after throuughly brushing the surface,free from mortar drops and other foreign matter, including priming , including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications,with primer. (Page No : 117, item No :15.51.2)For internal walls.								
	Same As Internal Plastering Qnty								
	Total Qty	Sqm					235.58	97.20	22898.76
	Basic rate	90.00							
	Area Weightage 8%	7.20							
	Final Rate	97.20							
26	Providing and applying two coats with Plastic emulsion paint of approved brand wall surface to a give an even approved shade after throuughly brushing the surface,free from mortar drops and other foreign matter, including priming , including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications,with primer. (Page No : 117, item No :15.51. 2 & 3) for ceiling								
	Same As Ceiling Plastering Qnty								
	Total Qty	**Sqm**					**98.85**	**101.52**	**10034.74**
	Basic rate	94.00							
	Area Weightage 8%	7.52							
	Final Rate	101.52							
27	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications.								
	Flooring	1	1	7.60	7.60	0.15	8.66		
		1	1	5.40	3.60	0.15	2.92		
		1	1	8.90	3.60	0.15	4.81		

	Total Qty	Sqm					16.39	5876.28	96288.72
	Basic rate	5441.00							
	Area Weightage 8%	435.28							
	Final Rate	5876.28							
28	KSRB 14.14-5: Providing Ceramic tiles of approved make,shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment , including cost of materials, labour, curing, complete as per specifications. - for Ceramic Tiles 400 x 400mm on a bed of 20mm thick (Page No : 106, item No :14.36.3)								
	Flooring	1	1	7.60	7.60		57.76		
		1	1	8.90	3.60		32.04		
		1	1	4.75	3.60		17.10		
	Total Qty	Sqm					106.90	1272.24	136002.46
	Basic rate	1178.00							
	Area Weightage 8%	94.24							
	Final Rate	1272.24							
	KSRB 14.14-5: Providing Ceramic tiles of approved make,shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment , including cost of materials, labour, curing, complete as per specifications. - for Ceramic Tiles of size 30x30cms 6mm thick. (P.No.106, I.No: 14.36.2)								
	Internal dadoing								
	Walls	1	1	38.20		1.50	57.30		
	Deduction for openings								
	Door D1	2	-1	1.20		1.35	-3.24		
	Door D2	1	-1	0.90		1.35	-1.22		
	Ventilators	1	-1	0.60		0.60	-0.36		
	Toilet 2 in Tatanagar								
	walls	1	2	39.90		1.35	107.73		
	Deduction for openings								
	Door D2	2	-1	0.90		1.35	-2.43		
	Door D1	4	-1	0.75		1.35	-4.05		
	Toilet Tatanagar park								
	Internal walls	1	2	29.60		1.35	79.92		
	Deduction for openings								
	Door D2	2	-1	0.90		1.50	-2.70		
	Door D1	4	-1	0.75		1.50	-4.50		
	front side	1	1	3.40		1.80	6.12		
		Total Qty	Sqm				232.58	1270.08	295388.86
	Basic rate	1176.00							
	Area Weightage 8%	94.08							
	Final Rate	1270.08							

	Providing and laying flooring using prepolished, water cut/gang saw 19mm thick granite laid over bed of 20mm thick 1:4 cm & jointed with neat cement slurry mixed with pigment to mach shade of granite slabs including laying POP on finished surface and cleaning the surface, including the cost of all materials and labours etc., complete as per specifications. - using silver grey granite / Multy Red / Ruby Red / Black / HassanGreen Granite of width not less than 1200mm (P.No.107, I.No.14.47.1)								
	for urinals	Sqm	9	0.90		1.20	9.72	2828.52	27493.21
	Basic rate	2619.00							
	Area Weightage 8%	209.52							
	Final Rate	2828.52							
29	KSRB 7.9:Providing and fixing M.S.gill work for windows and ventilators using M.S.flats, or M.S. square rods, or combination of M.S.flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications. Specification No. KBS 7.12 . (Page No : 32, item No :7.9)								
	0								
	Toilet 1in Sahakar nagara	1	6	0.60		0.60	2.16		
	grill for ventilation		4	3.20		0.30	3.84		
			2	4.30		0.15	1.29		
	Toilet 2 in Tatanagar	1	5	0.60		0.60	1.80		
	Toilet Tatanagar park	1	5	0.60		0.60	1.80		
	Windows		3	1.20		1.20	4.32		
	at 21kgs/sqm						319.41		
	Total Qty	**Kgs**					**319.41**	84.24	26907.10
	Basic rate	78.00							
	Area Weightage 8%	6.24							
	Final Rate	84.24							
30	KSRB 9.4-2 : Providing Honne wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and [illegible] but including cost of materials, labour, HOM of machineries								
	(P.No48, I.No. 9.11 of PWD SR 2016-17).								
	internal doors D1	cum	2	6.4	0.1	0.13	0.16		
	Total Qty	**cum**					**0.16**	111083.40	17773.35
	Basic rate	102855.00							
	Area Weightage 8%	8228.40							
	Final Rate	111083.40							
31	KSRB 9.5-2 : Providing and fixing in position fully panelled Honne wood shutters for doors, styles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries complete as per specifications. (excluding cost of fixtures) [illegible]								
	(P.No.47, I.No. 9.15 of PWD SR 2016-17).								
	internal doors D1	Sqm	2	1		2.1	4.20		
	Total Qty	**Sqm**					**4.20**	5014.44	21060.65
	Basic rate	4643.00							
	Area Weightage 8%	371.44							
	Final Rate	5014.44							

32	KSRB 7.10 : Providing and fixing in position aluminium windows and ventilators as per approved drawings with sliding shutters using double track window frame section of size 61.85x31.75mm. with 1.2mm thick, bottom section weight 0.695 kg/m, sides and top sections 1.3 mm. thick weight 0.659 kg/m; and shutter comprising top and bottom section of size 40mmx18mm, 1.25mm thick 0.417 kg./m; shutter outer side 40mmx18mm, 1.25mm.thick weight 0.417 kg/m, shutter interlock section 40mmx26.7mm, 1.1mm thick, weight 0.469 kg/m. the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc.; and providing and fixing 5.5mm. thick plain glass for shutters fitted with rubber beading aluminium sections including cutting to required length, joints mitred subdividing the frame tenonned and rivetted in the assembled frame stiffened with end clips at corners angles etc., and fixed to the walls, lintels, floor beams/cills as the case may be with necessary steel screws, raul plugs, or teak wood gatties including cutting masonry or concrete and making good the original surface using cement mortar, aluminium sections pretreated for removal of any Specification No. KBS								
	Toilet 1in Sahakar nagara		5	0.6		0.6	1.80		
	Toilet 2 in Tatanagar		5	0.6		0.6	1.80		
	Toilet Tatanagar park		5	0.6		0.6	1.80		
	grill for ventilation		4	3.2		0.3	3.84		
	Windows		3	1.2		1.2	4.32		
	Total Qty	**Sqm**					**13.56**	4123.44	55913.85
	Basic rate	3818.00							
	Area Weightage 8%	305.44							
	Final Rate	4123.44							
33	SOLID PANEL PRELAM PVC DOOR SHUTTER Providing & fixing 30mm thick factory made rigid foam Prelam Panelled Door Shutters made from M.S. tube of 19x19mm, 19 gauge for styles and 15x15mm for top & bottom rails, covered with heat moulded Prelaminated PVC C Channel of 5mm thick sheet & 30x50mm wide to form styles & 5mm thick & 75mm wide Prelaminated PVC Sheets for top rail, lock rail & bottom rail on either side & 5mm thick, 20mm wide cross PVC sheet as gap insert for top rail & bottom rail, Panelling of 5mm thick PVC sheet Prelaminated on either side fitted in the M.S. frame, Sealed to the styles & rails with PVC Designer beading on either side & joined together with solvent cement adhesive etc., Complete as per manufacturers specification & direction of Engineer-in-charge fixed to frames with 3 nos of 75mm. Aluminium hinges.								
	PVsc doors for toilet 1		9	0.60		1.80	9.72		
	PVsc doors for toilet 2		5	0.75		1.80	6.75		
	PVsc doors for toilet 3		5	0.75		1.80	6.75		
	Total Qty	**Sqm**					**23.22**	4368.60	101438.89
	Basic rate	4045							
	Area Weightage 8%	323.6							
	Final Rate	4368.60							

34	SOLID PVC DOOR FRAME Providing & fixing factory made PVC Door frame of size 50x47mm with a wall thickness of 5mm, made out of extruded 5mm rigid PVC foam sheet metered cut at corners & jointed 2 No.s of 150mm long brackets of 15x15mm M.S Square tube, the entire door frame to be reinforced with 19x19mm M.S Square tube of 19 gauge. The door frame to be fixed to the wall using M.S. Screws of 65/80mm size complete as per manufacturers specification & direction of Engineer-in-charge.								
	PVsc doors for toilet 1	sqm	9	0.6		1.8	9.72		
	PVsc doors for toilet 2		5	0.65		1.8	5.85		
	PVsc doors for toilet 2		5	0.65		1.8	5.85		
	Total Qty	**Sqm**					**21.42**	568.08	12168.27
	Basic rate	526.00							
	Area Weightage 8%	42.08							
	Final Rate	568.08							
35	KSRB 13-11.1 : Providing and placing on terrace, polyethylene water storage tanks as per IS 12701 : 1996 with manhole lid and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM of equipments and testing complete as per specifications.(For 1 000 litre capacity) Specification No.KBS 13.22 (P.No.94, I.No.13.78 of PW, P&IWTD S.R 2016-17)								
		1	4				4.00		
	Total Qty	**each**					**4.00**	9144.36	36577.44
	Basic rate	8467.00							
	Area Weightage 8%	677.36							
	Final Rate	9144.36							
36	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.) - 20mm nominal OD pipes. (P.No.96, I.No. 13.86.2 of PWD SR 2016-17)								
	20mm Nominal OD Pipes	2	80				160.00		
	Total Qty	**m**					**160.00**	226.80	36288.00
37	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.) - 25mm nominal OD pipes(P.No.96, I.No. 13.86.3 of PWD SR 2016-17)								
	25mm nominal OD pipes	2	80	--	--	--	160.00		
	Total Qty	m					160.00	270.00	43200.00
	Basic rate	250							
	Area Weightage 8%	20							
	Final Rate	270.00							

38	KSRB13-8.5 : Providing and fixing to wall, ceiling and floor, low density polyethylene pipes 6.00 kgf/sq.cm working pressure 110mm outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Specification No.KBS 13.2.15.1 / 13.9(P.No.94, I.No.13.70.4 of PW, P&IWTD S.R.2016-17)								
	110mm Outer dia	2	70	--	--	--	70.00		
	Total Qty	**m**					**70.00**	384.48	26913.60
	Basic rate	356							
	Area Weightage 8%	28.48							
	Final Rate	384.48							
39	KSRB 11-15.3 : Providing and fixing 453x357mm dia rectangular shape mirror with plastic moulded frame of approved make and shade with 6mm thick hard board backing including cost of materials, labour complete as per specifications. (P.No.82, I.No. 12.41 of PWD SR 2016-17)								
		2	3	--	--	--	6.00		
	Total Qty	**unit**					**6.00**	1274.40	7646.40
	Basic rate	1180.00							
	Area Weightage 8%	94.40							
	Final Rate	1274.40							
40	Providing and fixing 7.5 cms to 15.00 cms dia NP grating 100 mm dia. (P.No. 88, I.No. 12.111 of PWD SR 2016-17)								
		2	20	--	--	--	40.00		
	Total Qty	**each**					**40.00**	172.80	6912.00
	Basic rate	160.00							
	Area Weightage 8%	12.80							
	Final Rate	172.80							
41	Providing and fixing CI Nahani trap of approved make conforming to ISI specifications and construction of Cistern in M-15 as per directions (Rate is inclusive of cost of materials and fixtures and conveyance of materials to work spot). - 10cms x 7.5cms (P.No. 88, I.No. 12.113.1 of PWD SR 2016-17)								
		2	20	--	--	--	40.00		
	Total Qty	**each**					**40.00**	270.00	10800.00
	Basic rate	250.00							
	Area Weightage 8%	20.00							
	Final Rate	270.00							
42	KSRB13-6.1-1 : Providing and fixing in position brass bib cock of approved quality 20mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.2 / 13.3 (P.No. 91, I.No. 13.23 of PWD SR 2016-17)								
		1	25	--	--	--	25.00		
	Total Qty	**each**					**25.00**	262.44	6561.00
	Basic rate	243							
	Area Weightage 8%	19.44							
	Final Rate	262.44							
43	KSRB13-6.3-3 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 25mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.6 / 13.3. (P.No.91/								
		1	20	--	--	--	20.00		

	Total Qty	each					20.00	648.00	12960.00
	Basic rate	600.00							
	Area Weightage 8%	48.00							
	Final Rate	648.00							
44	KSRB13-6.3-3 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 20mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.6 / 13.3. (P.No.91/ I.No. 13.33 of CSR 2016-17)								
		1	25	--	--	--	25.00		
	Total Qty	each					25.00	441.72	11043.00
	Basic rate	409.00							
	Area Weightage 8%	32.72							
	Final Rate	441.72							
45	Constructing brick masonry inspection chamber 450x450mm, and 450mm depth, (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover withframe (light duty) 455x610mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23kg and weight of frame 15 kg) R.C.C. top slab with cement concrete M 15 with 20mm and downsize granite metal, foundation concrete M 5 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finish smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specifications. Specification No. KBS 450x450mm and 450mm depth (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover withframe (light duty) 450x450mm (P.No. 73/								
		1	8	--	--	--	8.00		
	Total Qty	Nos					8.00	5771.52	46172.16
	Basic rate	5344							
	Area Weightage 8%	427.52							
	Final Rate	5771.52							
46	KSRB 11-2 : Providing and fixing white vitreous china clay, water closet Orissa pattern of size 580 x 440mm with integral type footrests, 100mm S or P trap, 10 litre low level, P.V.C flushing cistern (all are approved make) with fittings, C.I / M.S brackets, 32mm diameter flush pipe fittings and clamps, overflow arrangements with special and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11. (P.No. 77 / I.No.11.2 of PWD SR 2015-16) (P.No.77 / I.No.11.2 of CSR 2016-17)								
		1	6	--	--	--	6.00		
	Total Qty	Each					6.00	4682.88	28097.28
	Basic rate	4336.00							
	Area Weightage 8%	346.88							
	Final Rate	4682.88							

47	KSRB 11-5 : Providing and fixing white vitreous china clay, water closet European type (Pedestal type, P-trap) with black solid plastic seat and lid, C.P brass hinges, rubber buffers. 10 litre low level, P.V.C flushing cistern (all are approved make) with fittings, C.I / M.S brackets, 40mm diameter flush bend with fittings and clamps, overflow arrangements with special and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11. (P.No. 77, I.No.12.5 of PWD SR 2015-16).(P.No.77								
		1	19	--	--	--	19.00		
	Total Qty	Each					19.00	5540.40	105267.60
	Basic rate	5130.00							
	Area Weightage 8%	410.40							
	Final Rate	5540.40							
48	KSRB 11-7.4 : Providing and fixing white vitreous china clay, flat back, lipped front urinal basin of 430x260x350mm in the range of four with 10 litres PVC automatic flushing cistern, C.I / M.S brackets, standard flush pipe and C.P. brass spreaders with brass unions and G.I. clamps complete painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11. (P.No. 77, I.No.12.2 of PWD SR								
		3	3	--	--	--	9.00		
	Total Qty	Each					9.00	7354.80	66193.20
	Basic rate	6810							
	Area Weightage 8%	544.8							
	Final Rate	7354.80							
49	KSRB 11-11.1 : Providing and fixing white vitreous china clay, flat back wash basin size 630x450mm with a pair of 15mm C.P brass pillar taps with C.I / M.S brackets, 32 mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11 (P.No.80 i.No.12.23 of CSR 2016-17)								
		3	3	--	--	--	9.00		
	Total Qty	unit					9.00	4196.88	37771.92
	Basic rate	3886.00							
	Area Weightage 8%	310.88							
	Final Rate	4196.88							
50	Fabricating, supplying and erecting M.S. TubularTruss of span upto 10m. The bottom and top member is provided with 50x50x6mm double equal angles, welded back to back and in between top and bottom line, in areas of mid section is provided with 50x50x6mm equal single angle for vertical and inclined members and at supporting ends 40x40x5mm single angle is								
	for roofing truss toilet 2					kg/m			
	main members 100X45X3		4	4.80	8.22		32.88		
	purlins 45X45X3		5	4.30	3.88		19.40		
	Total Qty	Kgs					52.28	118.80	6210.86
	Basic rate	110.00							
	Area Weightage 8%	8.80							
	Final Rate	118.80							

51	PROVIDING TRAPEZOIDAL PROFILED SHEET Providing and installing of pre painted Galvolume iron Trapezoidal profiled sheet of approved make 1060 mm width (1000 mm cover width), 28-30 mm crest height with crest distance of 200 mm c/c with 2 ribs at the centre for stiffening. The total coated thickness (TCT) of the sheet will be 0.47 mm +/- 0.02 mm tolerance Zinc-Alu Alloy coating AZ150 gsm as per ASTM 1397/A755-550 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 20-22 microns using self drilling/self tapping screws of 25 mm length, to be fixed over the existing								
	Toilet 2 roofing		1	4.80	4.30		20.64	831.60	17164.22
	Basic rate	770.00							
	Area Weightage 8%	61.60							
	Final Rate	831.60							
	BOREWELL								
52	Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P.W.S.S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation, Gerophysical investigation of existing Ground Wate in the vicinity, its qualityf 1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site., engaging techinical personal and labour required etc., as per Specification and direction (P.48, I. 9.4) PRED.SR 2012-13								
		Each BW	2				2	1882.00	3764.0
53	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars, cap etc.,) P. 46 / I. 9.1								
	0 to 50 m	Rmtr	2	50.00			100.00	306.00	30600.0
	50 to 100 m		2	50.00			100.00	400.00	40000.0
	100 to 150 m		2	50.00			100.00	445.00	44500.0
	150 to 200 m		2	50.00			100.00	470.00	47000.0
	200 to 260 m		2	60.00			120.00	544.00	65280.0
54	Supply of ISI mark 175 mm nominal bore, Plain end steel casing pipe - grade of Steel Fee 410 of wall thickness 5.4mm thick confirming to IS 4270:2001 and latest amendments, electric resistance welded steel tube material and confirming to IS 1387/1993 and manufactured by baseic open hearth electric or basic oxygen process in random length of 5 to 7 mts both ends threaded confirming tio IS 554/1985, one end fixied with socket confirming to IS 4270:2001 and the other end with screwed pipes ISI Marking weighing 25.10Kg/mtr (Inclusive of all taxes and durties) Prices include Collar-medium duty P. iii, I No. 84 PRED SR 2012-13								
			2	50.00			100.00	1325.00	132500.0
55	Providing 250mm dia PVC Pipe 6kg/cm SE PRED Approved Rate	Rmtr							
			2	18.00			36.00	754.47	27161.0

56	Providing and fixing 160mm Borewell Cap P. iii, I No. 85	Each							
			2				2	100.00	200.0
57	Supply and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / Atalanta/ Calamol/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by meaans of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for opertation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required aqccessories such as suction, casing suction strainers sand guard Non return value etc. complete . The pump and motor shall form an integral unit with all the required fittings 12.50 HP 25 stage. ATALANTA< SUGNA< CRI, KIRLOSKAR and other Equivalent Pumps PWD SR 2016-17 P. XXXXII Item No. 24 including of all taxes								
	17.5 HP 30 Stage	nos	2				2	74300	148600.0
58	Supplying of ISI marked galvanized mild steel tube (continously welded electric resistance welded (ERW) high frequency, induction welded (HFIW) Hot finished welded type of nominal bore given below screwed at both ends as per IS 554/1986 with latest amendments, pipes threaftes at one end and the other end protected asper specification in random lengths of 4 to 7 mtrs Confirming to IS 1239 part I/1990 with amendament 1-5 and with all its latest amendements if any. The pipes supplied should be with BIS mark No 3/08-09 2406/15.10.2008								
			2	250.00			500.00	375.00	187500.0
59	Heavy Duty Collar 50 mm dia	Nos	88				88	130.00	11440.0
60	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage upto 1100Volts as per IS-694:1990 & confirming to GTP of GROUP-A. P. No. 12 / I No. 2.10.4(1) 3C x 6 Sqm mm KPWD Electrical SR 2014-15								
		Mtr	2	255.00			510.00	188.70	96237.0
61	Erection of pumpset including aligning and balancing with all necessary erection materials and labour including supply and erection of one pair supporting clamps, one borewell cap. Cable clips with bolts, nuts, valves guages etc., involoved in the job (Necessary GI pipe and specials with be supplied by the board at the site free of cost) (As per rate approved KUWS & DB for year 2008-09								
		No	2				2	3000.00	6000.0
62	Supplying and fixing 20"x20"x2.5" polished wood board made of not less than 15mm thick plank on both sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc., P No. 44 / I No. 6.6.6 KPWD Electrical SR 2014-15								
		Each	2				2	302.00	604.0

63	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A P No. 55/ I No. 7.4.4 4 core 16 Sqmm KPWD Electrical SR 2014-15								
		Mtr	2	30.00			60.00	140.40	8424.0
64	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.In existing trench/duct. P No. 61 / I No. 7.8.1 6Sqmm to 16 Sqmm) KPWD Electrical SR 2014-15								
		Mtr	2	30.00			60.00	10.80	648.0
65	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7) P No. 61 / I. No. 7.9.3 KPWD Electrical SR 2014-15								
	For Cutting Road Surface	Mtr	2	25.00			50.00	85.00	4250.0
66	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV P. No. 62 / I No. 7.12.1 KPWD Electrical SR 2014-15								
	40mm dia GI pipe	Mtr	2	4.00			8.00	345.00	2760.0
67	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc., P. No. 62 / I.No. 7.13.2								
	16Sqmm	No.	2				2.00	280.00	560.0
68	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia, (P No. 55, I No. 7.1) KPWD Electrical SR 2014-15								
		No	2				2	2727.00	5454.0
69	Supplying & fixing of Porcelain fuse channel with cut out on existing								
	32 Amps	No.	12				12	180.00	2160.0
70	KSRB 13-7.1-4: Providing and fixing in position 50mm nominal bore gun								
		Nos	2				2	1615.68	3231.0
	Basic Rate	1496.00							
	Area Weightage @ 8%	119.68							
	Total	1615.68							
71	Providing NP/CP waste unions conforming to ISI specifications and fixing								
	50mm dia	No	2				2	232.20	464.0
	Basic Rate	215.00							
	Area Weightage @ 8%	17.20							
	Total	232.20							
72	Supplying and fixing 50mm dia GI X nipple with ISI mark with all lead and								
		No	2	4.00			8	80.00	640.0
73	Supplying shunt capaitors conforming to IS 2834, 3phase 400/440 volts								
		No	2				2	350.00	700.0
74	Supplying and fixing miniature circuit breakers on existing MCB distribution								
			2				2	1547.00	3094.0

75	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete P.No. 49, I. No. 6.40.2 KPWD Electrical SR 2014-15								
	16SWG	Sq.Cm	2	120.00	60.00		14400		
			2	300.00	25.00		15000		
							29400	0.33	9702.0
76	Supplying and delivery at site brand new star / Essen/ Lotus/Sun-shines/Adarsh/ GK Controls best indigenous make combined energy meter - cum- control panel board unit of size 600x450 x200 mm minimum mechanically strong vermin and water proof. The unit shall have two detachable doors suitable for operation on 3 ph, 50Hz, 380/440 volts, A.C supply with spring loaded latch, locking device with a key ribs should be provided inside the door, canopy apron and louvers ventilators shall be provided. the combined energy meter cum- control panel board unit suitable for operation. The panel board shall be fabricated on single unit in the above components for suitable pumpset. 12.5HP to 15 HP Star Delta								
		No.	2				2	11000	22000.0
77	Earthwork excavation for pipeline trenches including deporiting or bank up to a lead of 50 mtrs including shiriry and statting danger lighting and using site rails and boming poles at every 100 mtrs wherever necessary as directed in th following strructure manhole. Page No. 01/ Item No.1.2.2 / PRED SR 2012-13 Hard Soil								
		Cum	2	60.00	0.60	0.75	54.00		
							54.00	188.00	10152.0
	Basic Rate	188.00							
78	Providing and instalation at site of works P.V.C.Pipes including cost of pipes and specials and includng lowring into trenches, laying true to line, level and perfect linking at joints, leak proof including jointing encasing the pipe alround to a depth Not less than 15cm with grave or selected earth avalabile from the execavation Etc., Page No.15 item No.3.4.2 b PRED SR 2012-13.								
	75 mm dia G KSC PVC pipe	Rmtr	2	60.00			120.00		
							120.00	157.00	18840.0
79	Refilling the basement and pipeline treanches with secleted available earthe for trench excavation including authority condition in layers from thedi including disponsary of the sunplus earth with a heavy 200 mtrs Page No. 3 / Item No. 1.6 / PRED SR 2012-13								
		Cum	Qty. Vide Item No. 27				54.00	61.00	3294.0
	Basic Rate	61.00							

80	KSRB 13.6.3-6 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 50mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No. KBS 13.2.6/13.3 P. 92 / I.13.37 PWD SR - 2016-17.								
		Each	2				2	2216.16	4432.0
	Basic Rate	2052.00							
	Area Weightage @ 8%	164.16							
	Total	2216.16							
								TOTAL :	3961336.17
81							Cost towardsElectrical Works		600000.00
82							Cost towards PMC / Third Party inspection LS		39614.00
83							Tender Premium 10%		396133.62
							Sub Total		4997083.78
84							Miscellaneous and rounding off		2916.22
							Total		5000000.00

Certificate.

1 The rates adopted based on the PWD SR, Bangalore circle for year 2016-17.
2 The provisions made in the estimate are necessary and essential.
3 The workspot was inspected and work is found to be necessary.
4 The area comes within the Bruhat Bangalore Mahanagara Palike limits.

Assistant Engineer

Assistant Executive Engineer
Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Executive Engineer

ADMINISTRATIVE APPROVAL

Accorded For Rs. Fifty lakhs only

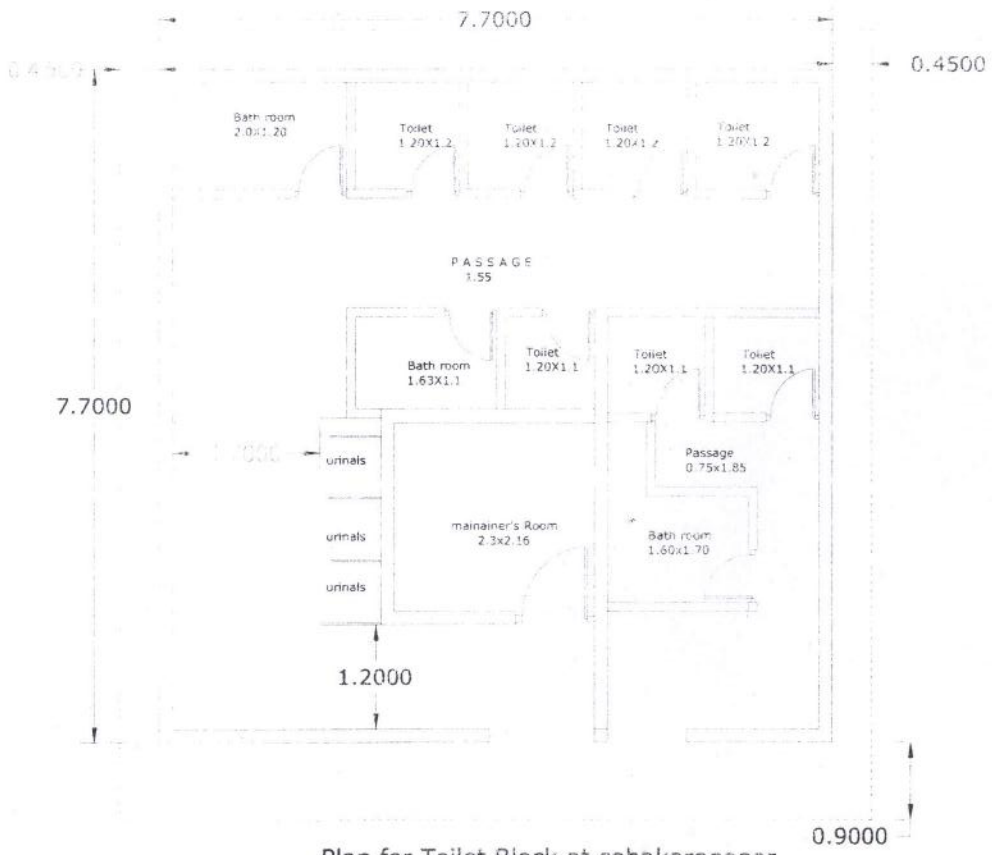
Head of A/c. P-3270

Div. Ref. No. 167/17-18 Date 27/01/18.

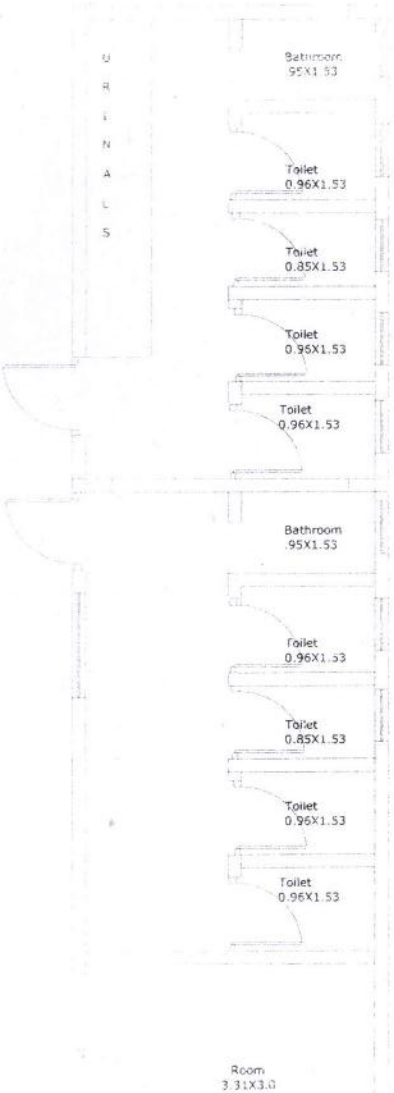
AE

EE(BTP)

Construction and Improvements of toilets in Ward No 08 Byatarayanapura Sub Division



Plan for Toilet Block at sahakaranagar



Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.